

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.

USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

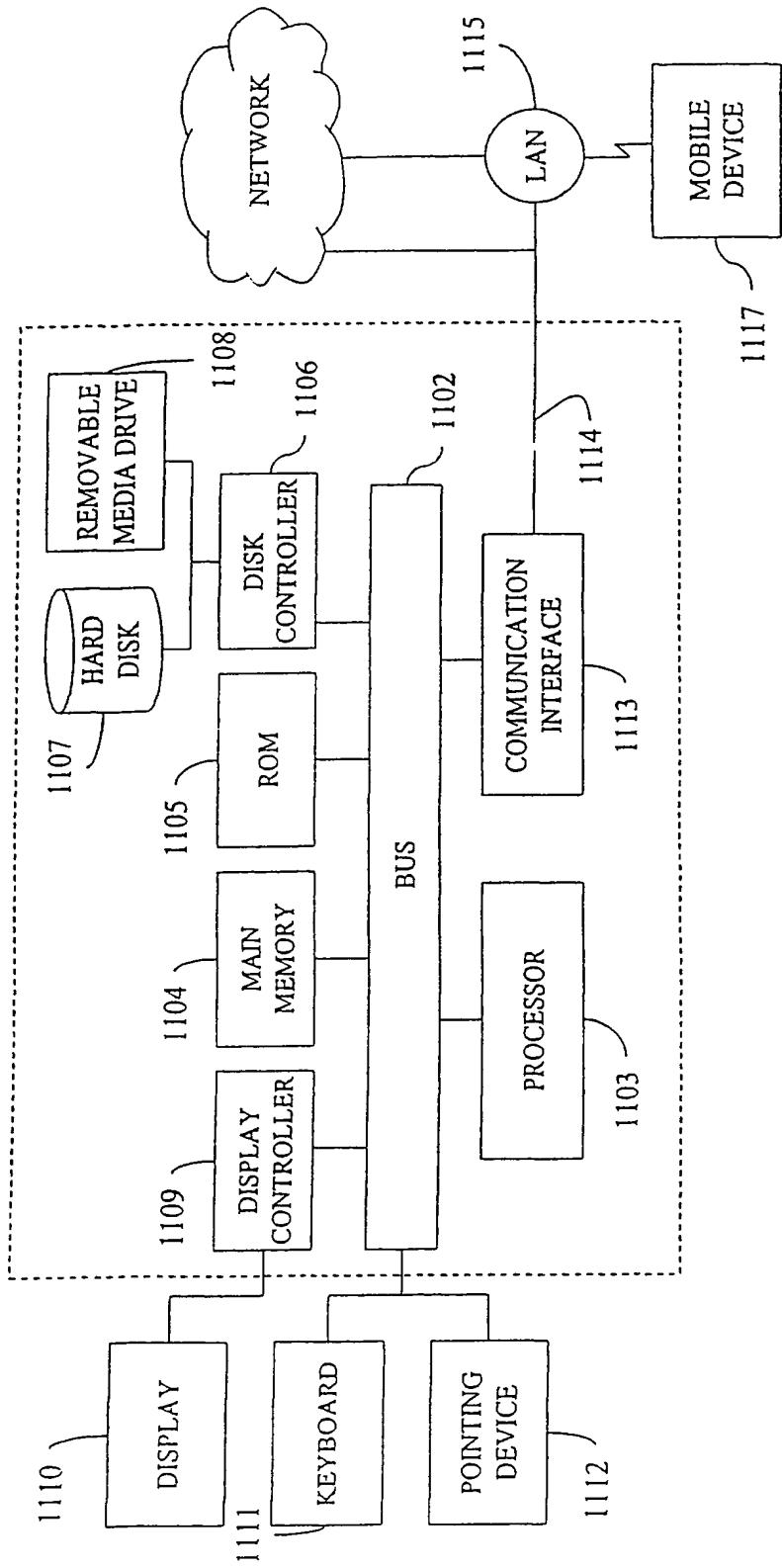


FIG. 1

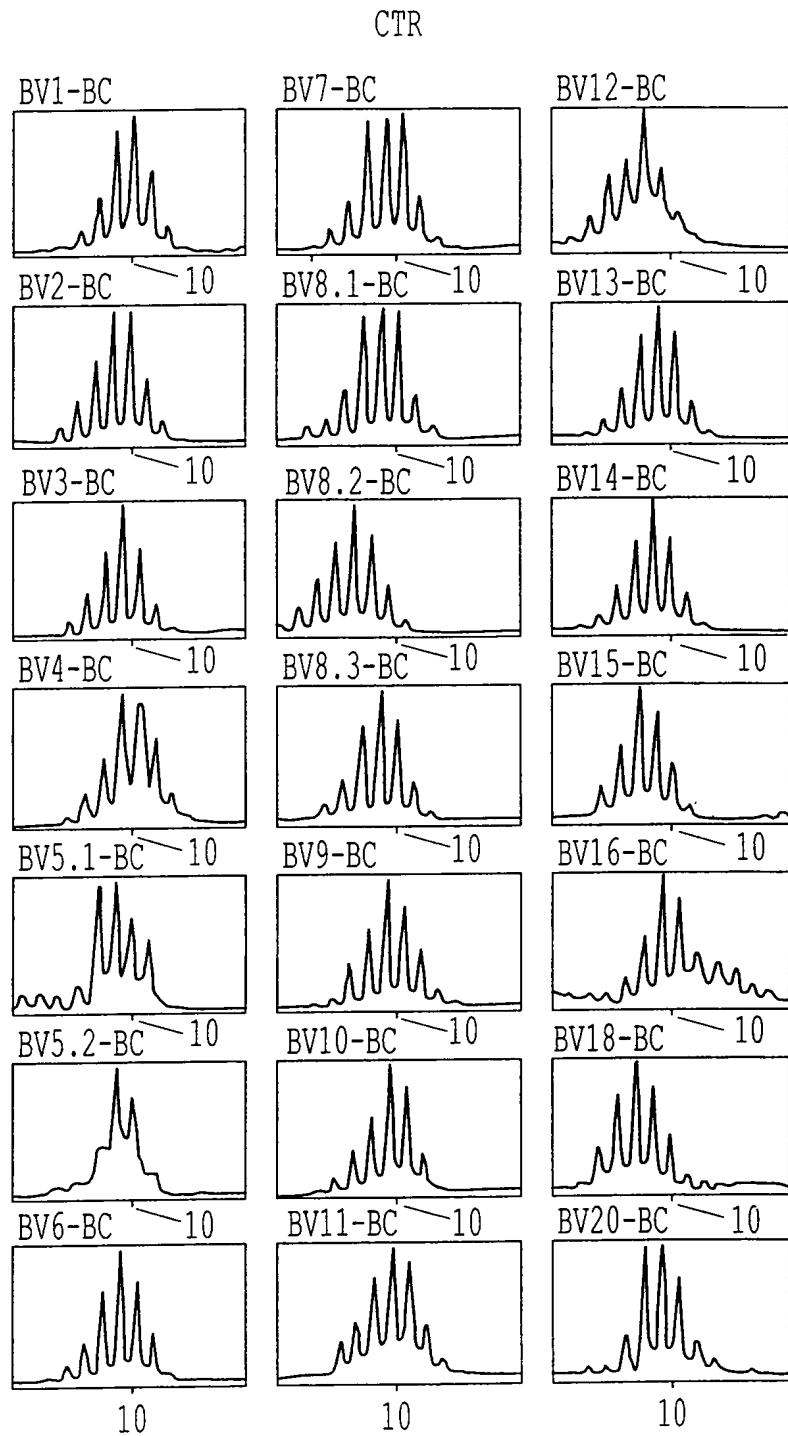


FIG. 2A

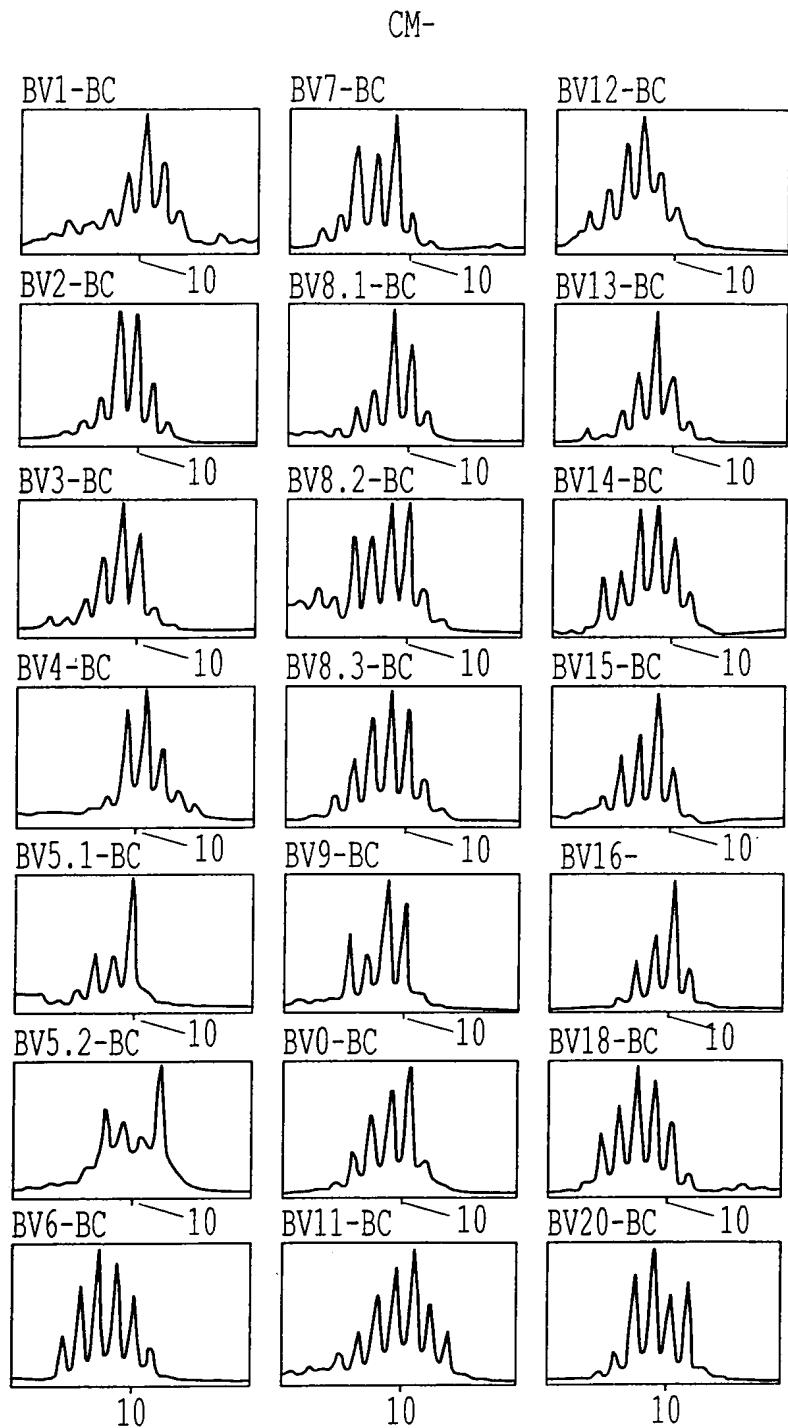


FIG. 2B

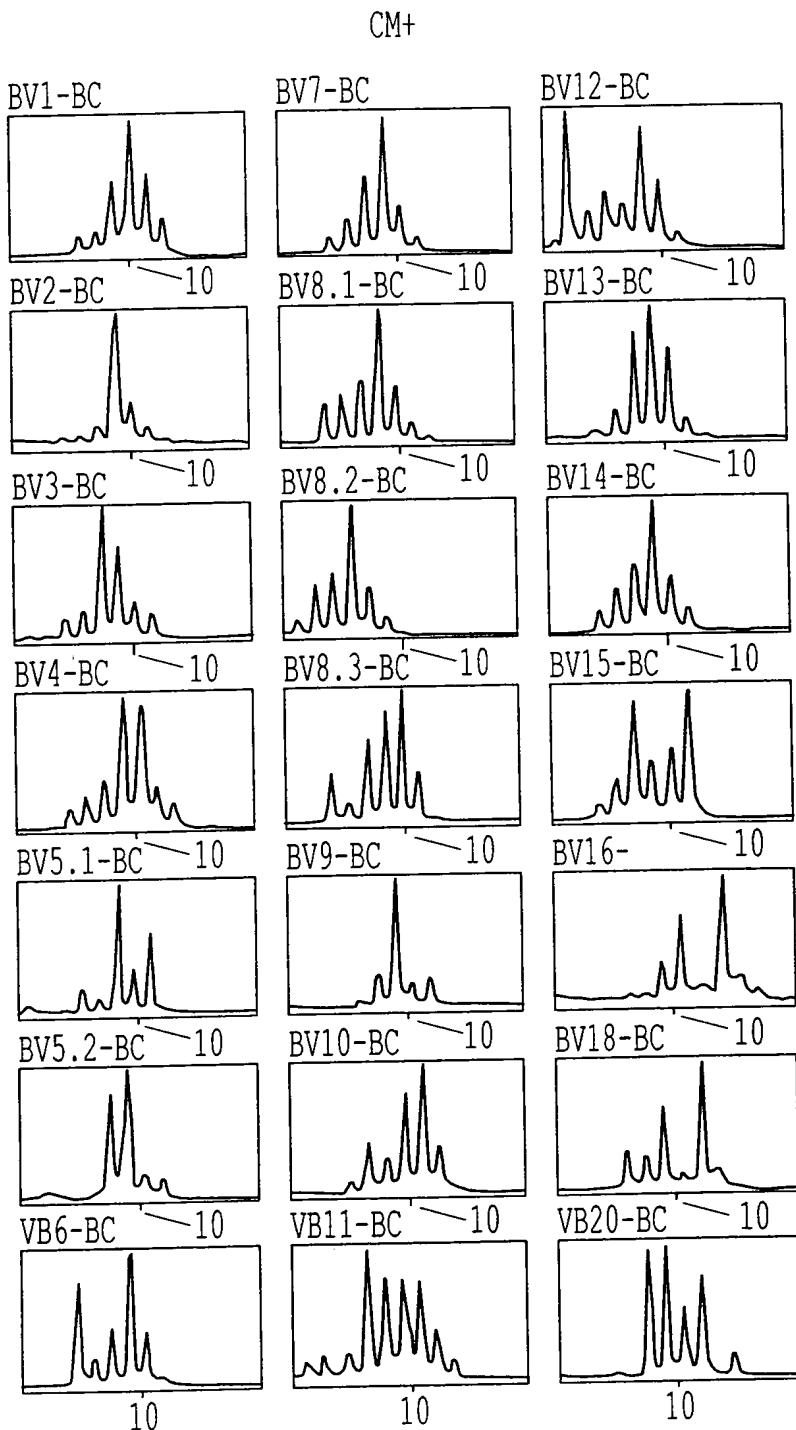


FIG. 2C

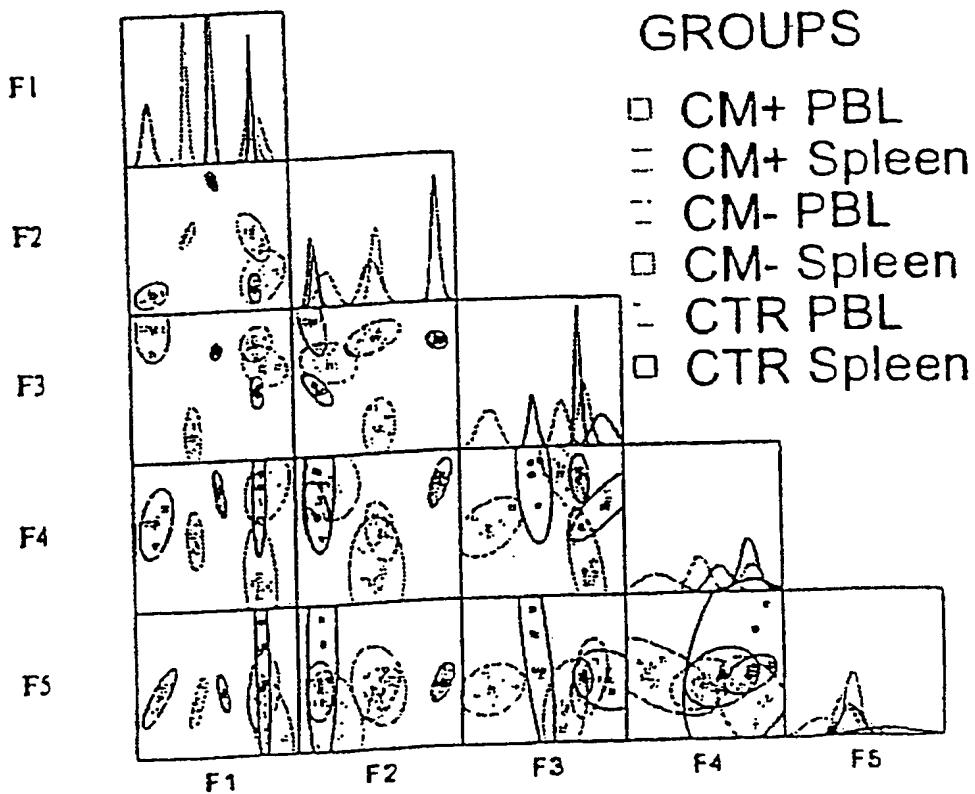


FIG. 3

OBLON ET AL (703) 4 13-3000
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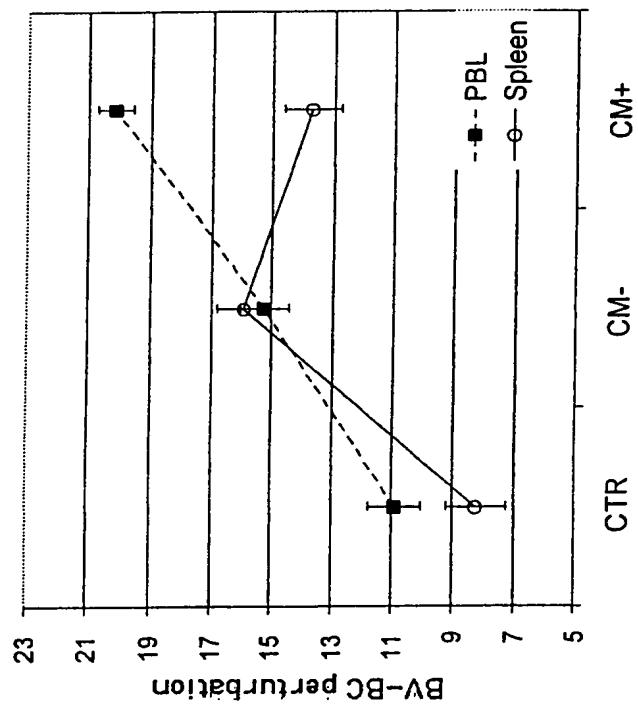


FIG. 4A

OBLON ET AL (703) 413-3000
DOCKET # 26396US0X PCT
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REPLACEMENT SHEET(S)

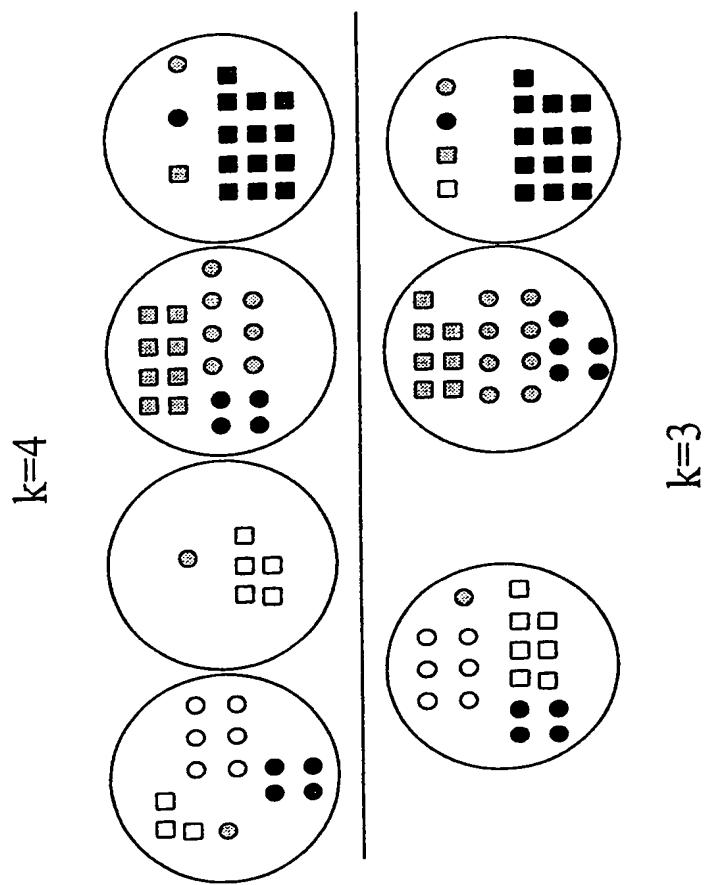


FIG. 4B

OBLON ET AL (703) 413-3000
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REPLACEMENT SHEET(S)

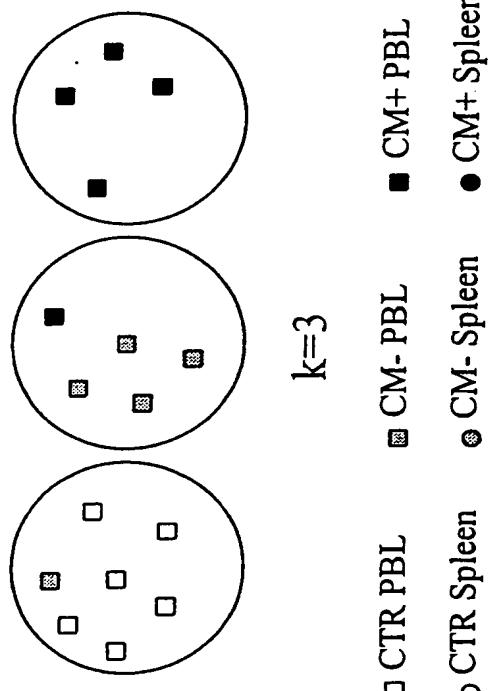


FIG. 4C

OBLON ET AL (703) 413-3000
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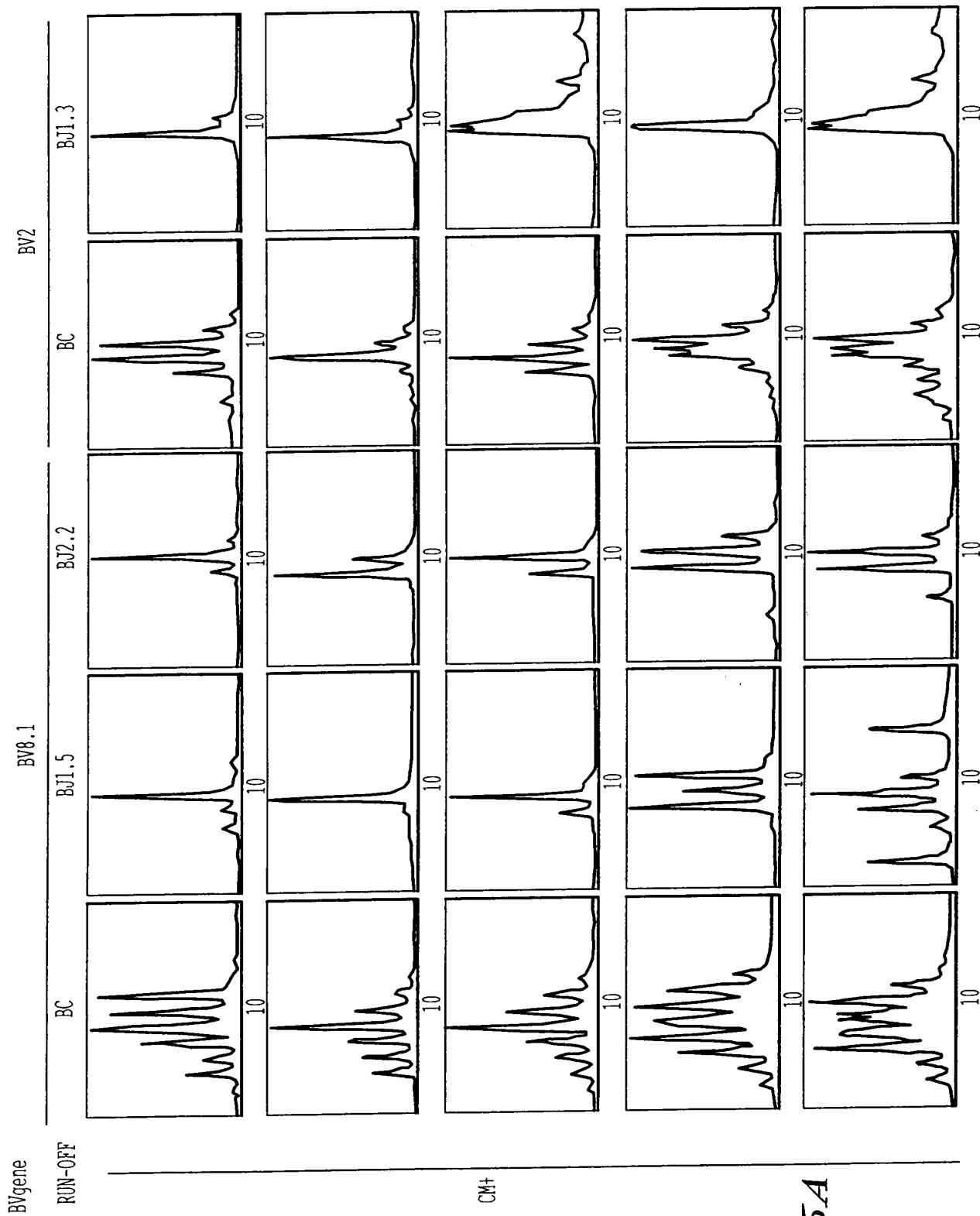
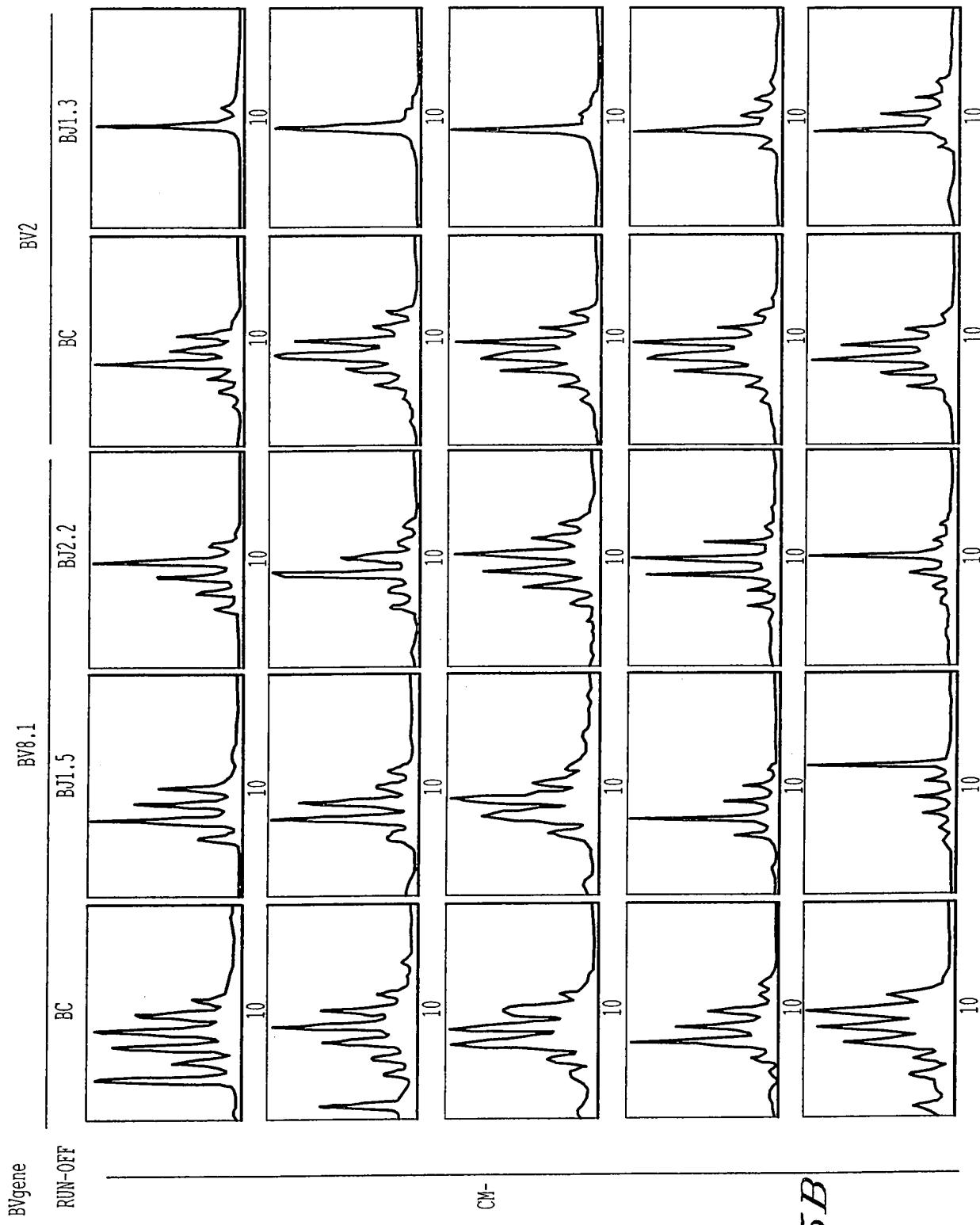
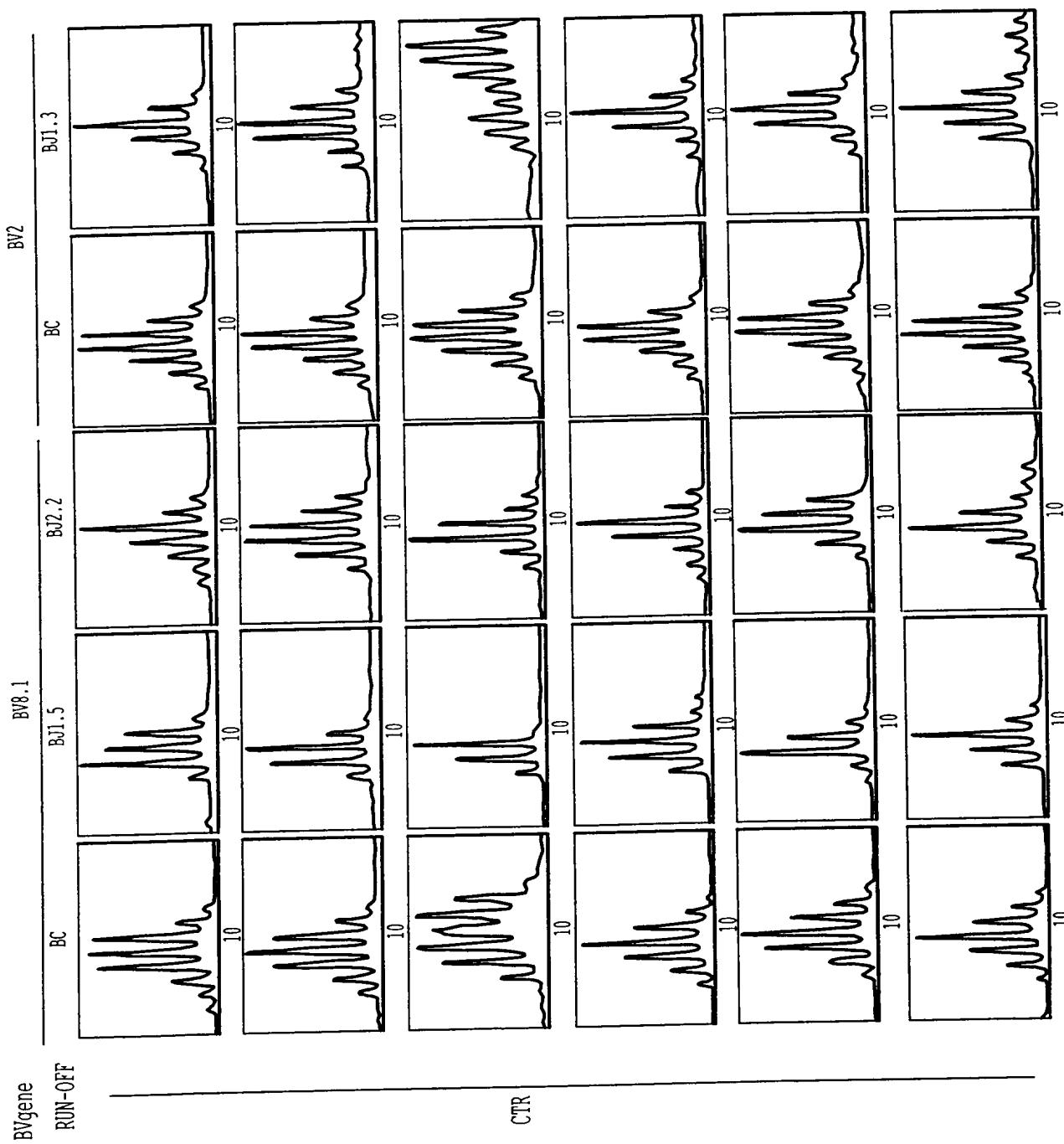


FIG. 5A

OBLON ET AL (703) 413-3000
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REPLACEMENT SHEET(S)





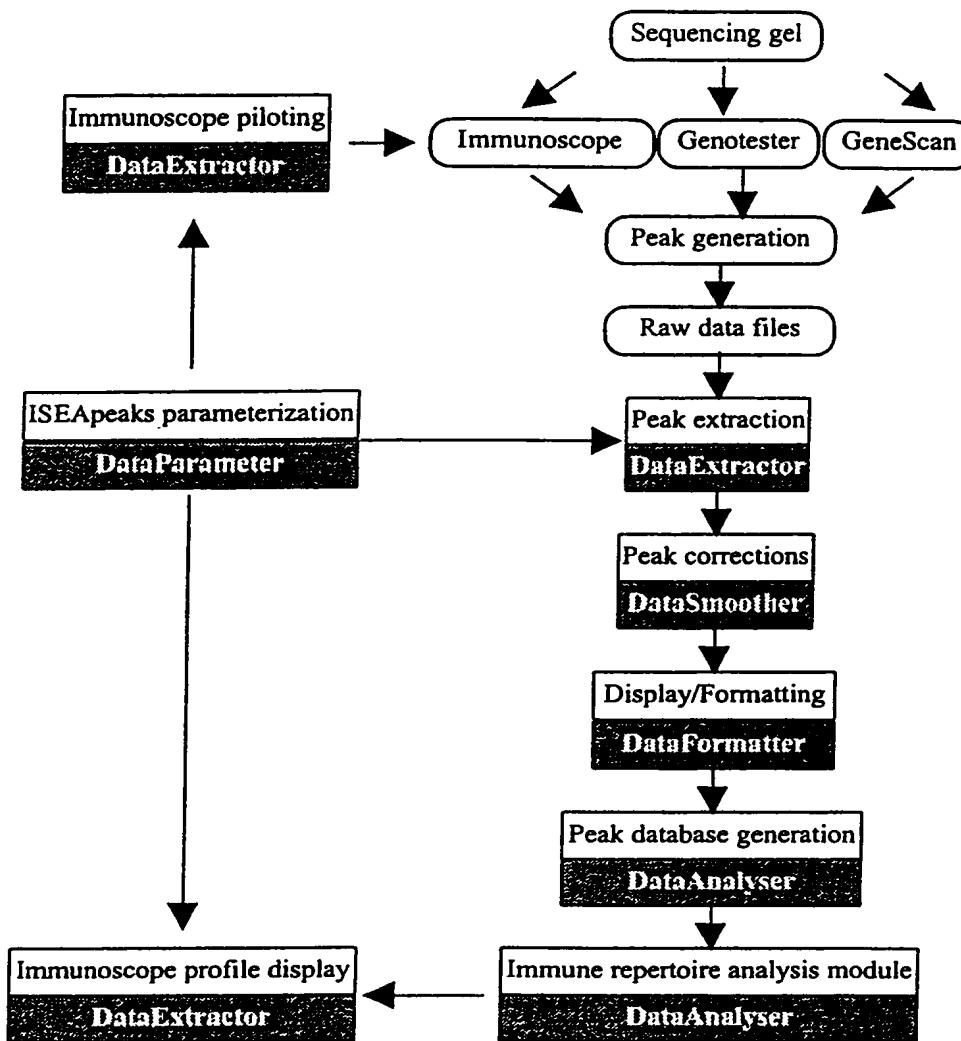


FIG. 6

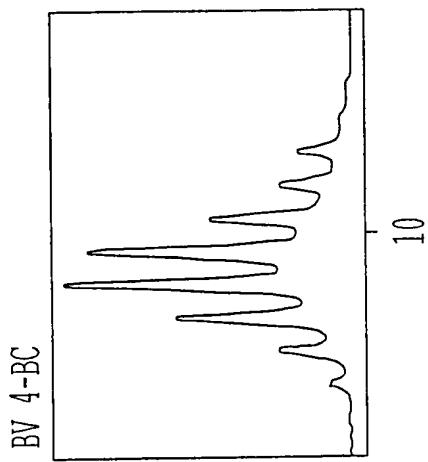


FIG. 7A

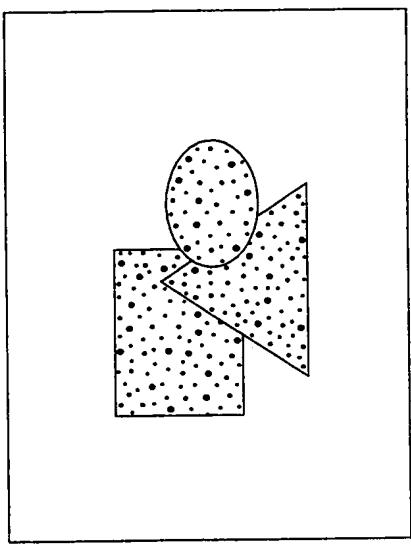


FIG. 7B

	mLENGTH	mAREA	misCONSIDERED															
IMMUNOSCOPE																		
RAW DATA	100019	2008	6133	14418	23540	24664	751	13318	7082	193	192	190	187	184	182	178	178	178
FIRST FILTER	100019	2008	6133	14418	23540	24664	751	13318	7082	196	193	192	187	184	182	178	178	178
SECOND FILTER	100019	2008	6133	14418	23540	24664	751	13318	7082	196	193	190	187	184	182	178	178	178
THIRD FILTER	100019	2008	6133	14418	23540	14418	14418	14418	14418	195	192	190	189	186	183	181	178	178

FIG. 7C

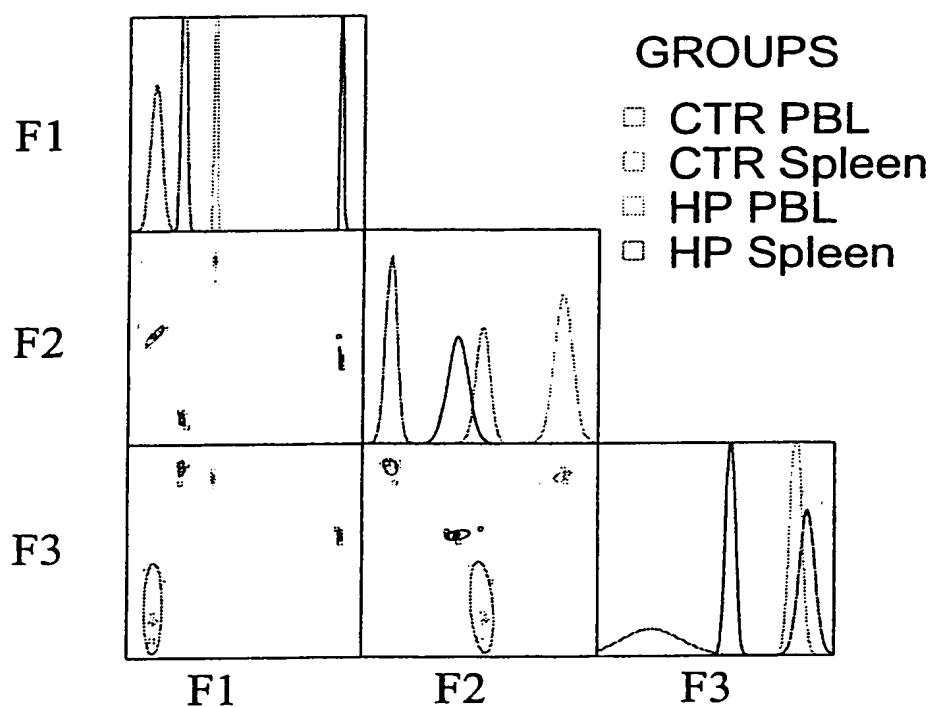


FIG. 8

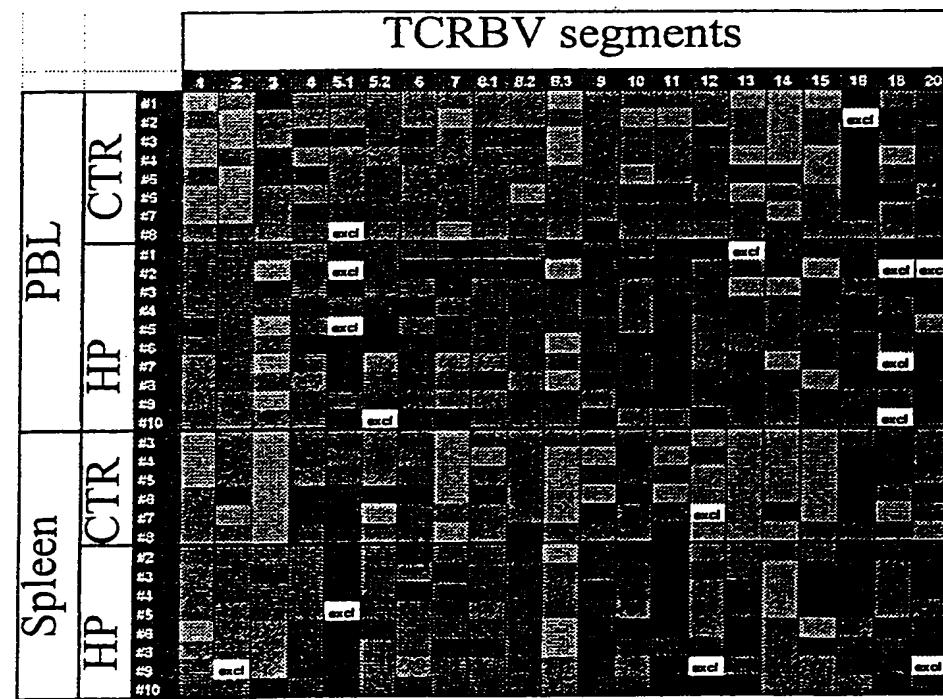
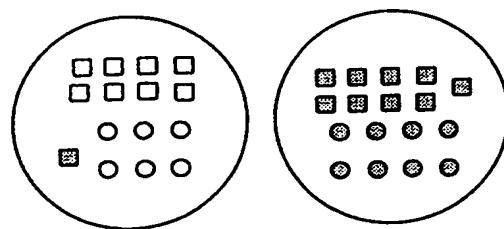
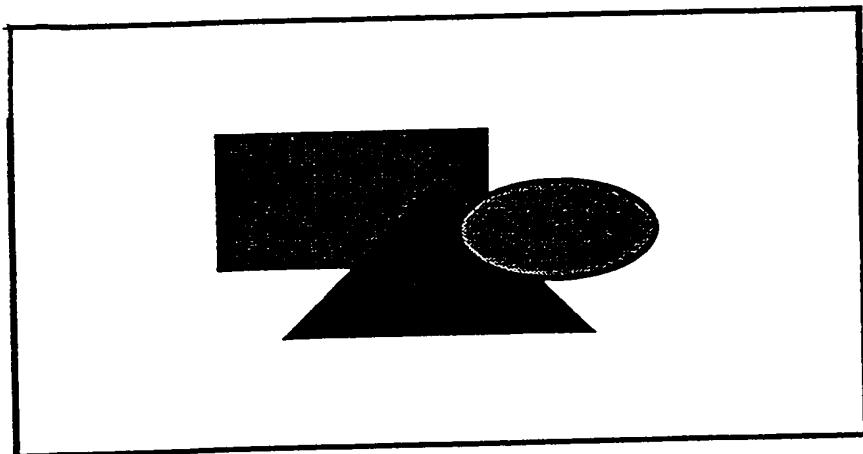


FIG. 9

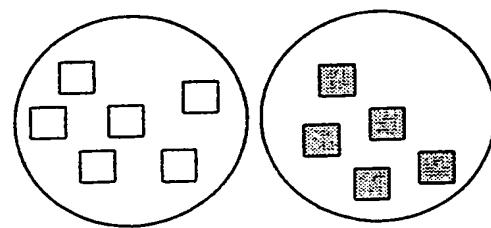
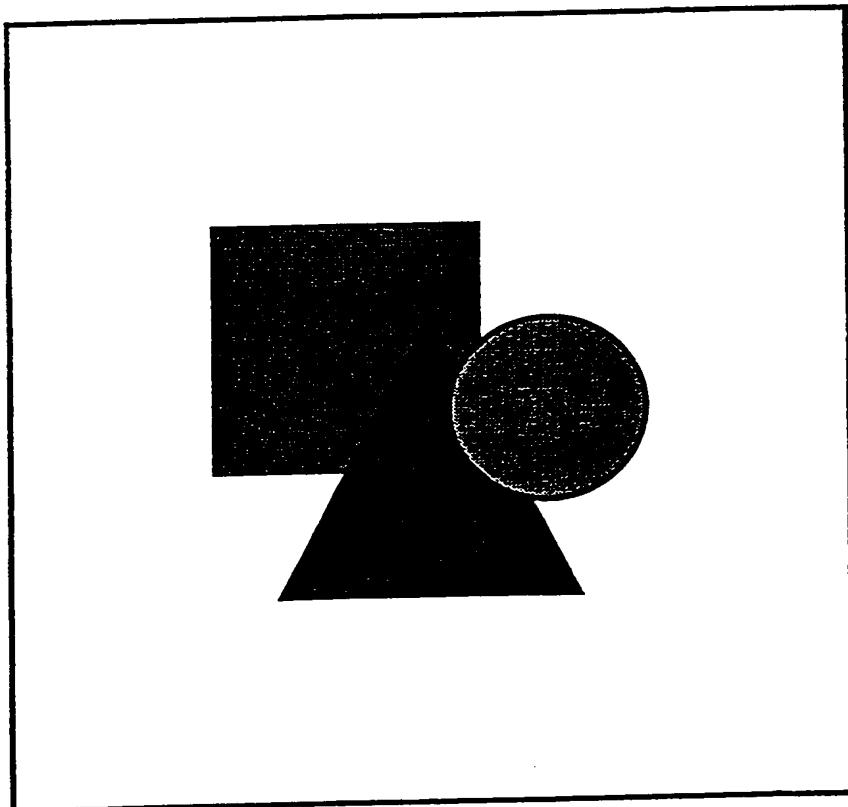
FIG. 10A



□ CTR PBL ■ HP PBL
○ CTR Spleen ● HP Spleen

FIG 10B

FIG. 11A



CTR PBL HP PBL

FIG 11B

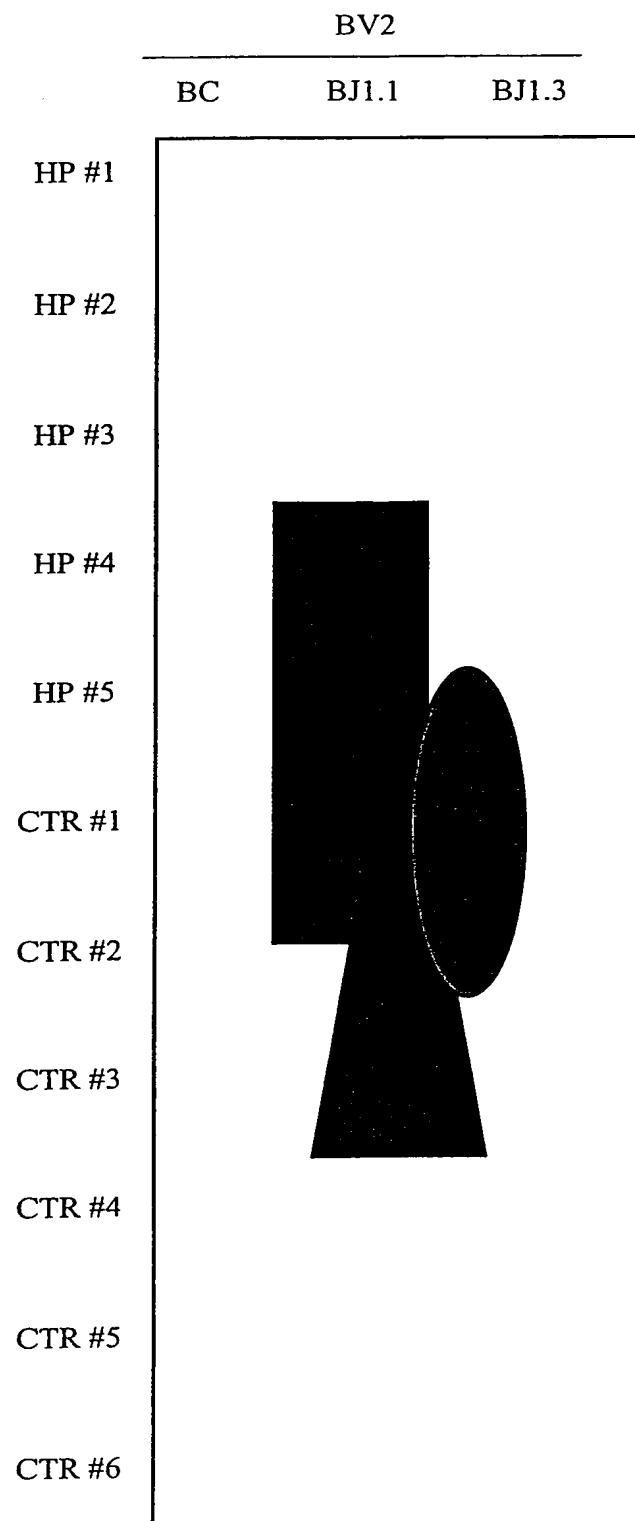


FIG. 12

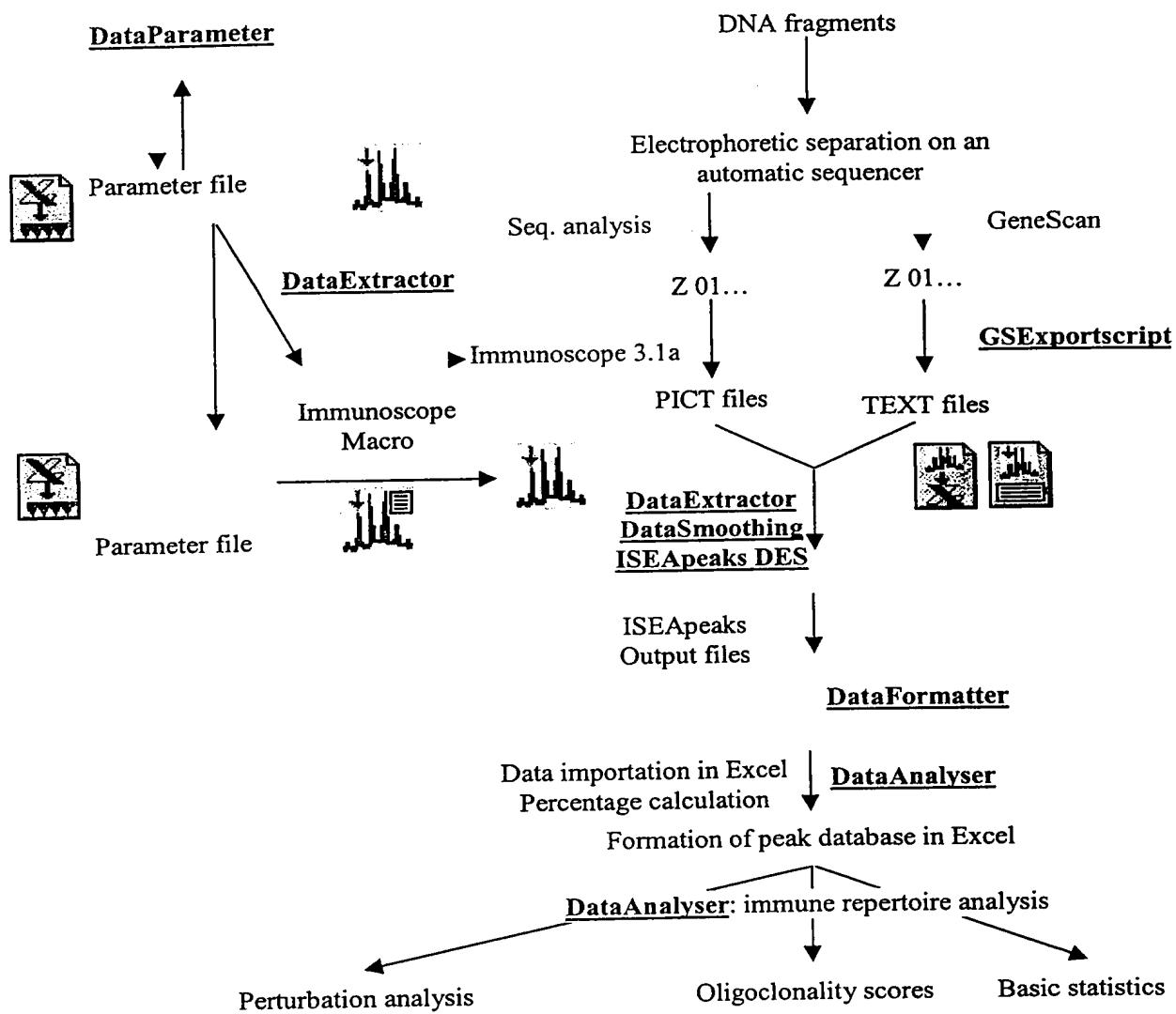
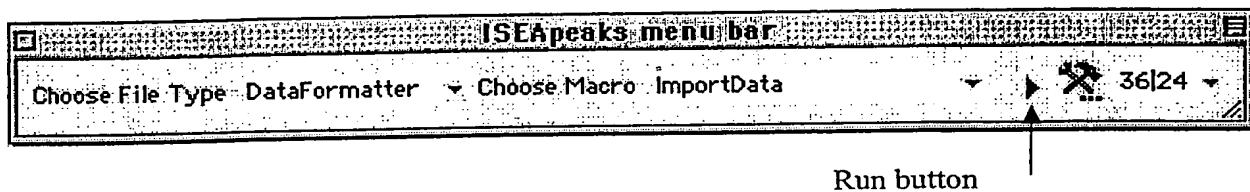


FIG. 13

FIG. 14



Run button

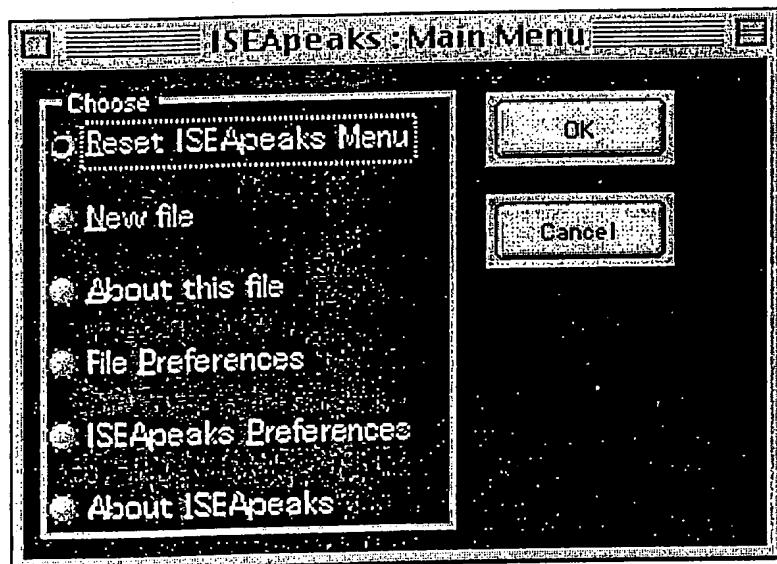


FIG. 15

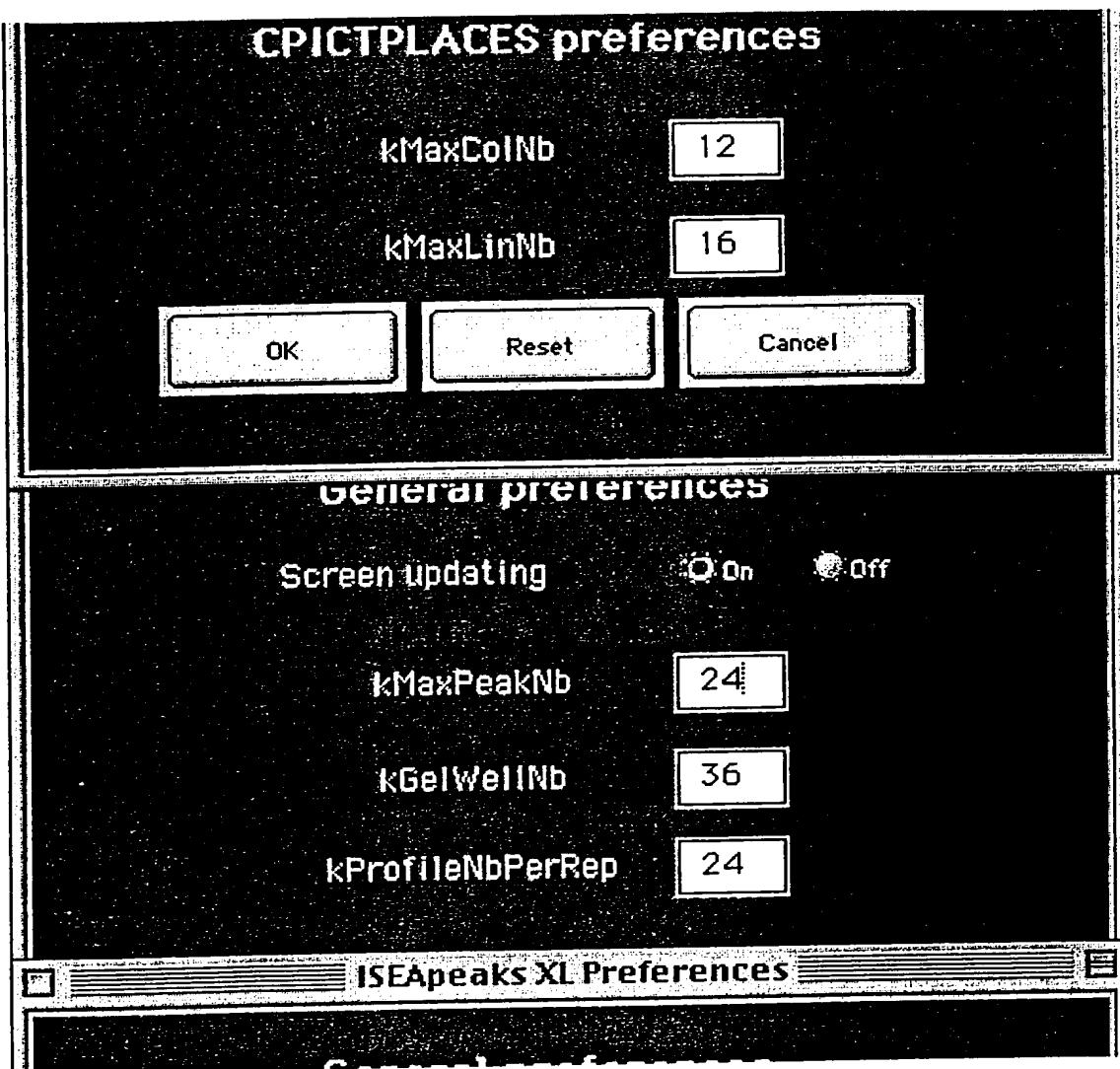


FIG. 16

27					
28	Well	1	2	3	4
29	mIsConsidered	1	1	1	1
30	mDescription	Yb08.1-Jb1.3	Yb08.1-Jb2.7	Yb08.1-Jb2.3	Yb08.1-Jb1.6
31	mTheoricLength	188	205	188	202
32	mNewOrder	27	36	33	30
33					
34	Well	13	14	15	16
35		Yb2,3,5,14,16,7-Jb,2.0		Yb6,9,8,1,8,2,14,8,3-Jb, v.	
36	mTheoricLength	104	121	104	118
37	mNewOrder	15	24	21	18
38					
39					
40	Well	25	26	27	28
41	mIsConsidered	1	1	1	1
42	mDescription	Yb14-Jb1.3	Yb14-Jb2.7	Yb14-Jb2.3	Yb14-Jb1.6
43	mTheoricLength	115	132	115	129
44	mNewOrder	51	60	57	54
45					
46					
47	Well	1	2	3	4
48	mIsConsidered	1	1	1	1
49	mDescription	Yb06-Jb1.3	Yb06-Jb2.7	Yb06-Jb2.3	Yb06-Jb1.6
50	mTheoricLength	103	120	103	117
51	mNewOrder	3	12	9	6
52					
53					
54	Well	13	14	15	16
55	mIsConsidered	1	1	1	1
56	mDescription	Yb09-Jb1.3	Yb09-Jb2.7	Yb09-Jb2.3	Yb09-Jb1.6
57					
58					
59					
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ISEApeaks menu bar				
39	mFolderName	Gel002	Gel010	
40	mCGELFileName	m3SET v2.0	Yb6,9,8,1,8,2,14,8,3-Jb v2.	
41	mSet	1	1	
42	mWellsNbPerSet	24	72	
43	mDescription	TCRBY08.1	Yb08.1-Jb1.5	
44				
45		61	62	63
				64
		NewCCell	NewCPictPlaces	
50	mIsConsidered			0
51	mFolderName	Gel004	Gel009	NONE
52	mCGELFileName	m3SET v2.0	Yb6,9,8,1,8,2,14,8,3-Jb v2.0	NONE
53	mSet	2	1	1
54	mWellsNbPerSet	24	72	72
55	mDescription	TCRBY08.1	Yb08.1-Jb1.5	NONE
56				
57	mlsConsidered	49	50	51
58				52
59	mlsConsidered	1	1	1
60	mFolderName	Gel004	Gel008	0
61	mCGELFileName	m3SET v2.0	Yb6,9,8,1,8,2,14,8,3-Jb v2.0	0
62	mSet	1	1	1
63	mWellsNbPerSet	24	72	72
64	mDescription	TCRBY08.1	Yb08.1-Jb1.5	NONE
65				
66		37	38	39
67				40
68		13	14	15
69				16
70	mlsConsidered	1	1	1
71	mFolderName	Gel003	Gel007	0
72	mCGELFileName	m3SET v2.0	Yb6,9,8,1,8,2,14,8,3-Jb v2.0	0
73	mSet	3	1	1
74	mWellsNbPerSet	24	72	72
75	mDescription	TCRBY08.1	Yb08.1-Jb1.5	NONE
76				
77		25	26	27
78				28
79		1	2	3
80				4
81	mlsConsidered	1	1	1
82	mFolderName	Gel002	Gel006	0
83	mCGELFileName	m3SET v2.0	Yb6,9,8,1,8,2,14,8,3-Jb v2.0	0
84	mSet	3	1	1
85	mWellsNbPerSet	24	72	72
86	mDescription	TCRBY08.1	Yb08.1-Jb1.5	NONE
87				
88		DP 2.0.xls		
89	A	B	C	D
90	mDestFolderName =	Output		E
91	mMaxColNb =	12		
92	mMaxLinNb =	16		

FIG. 18

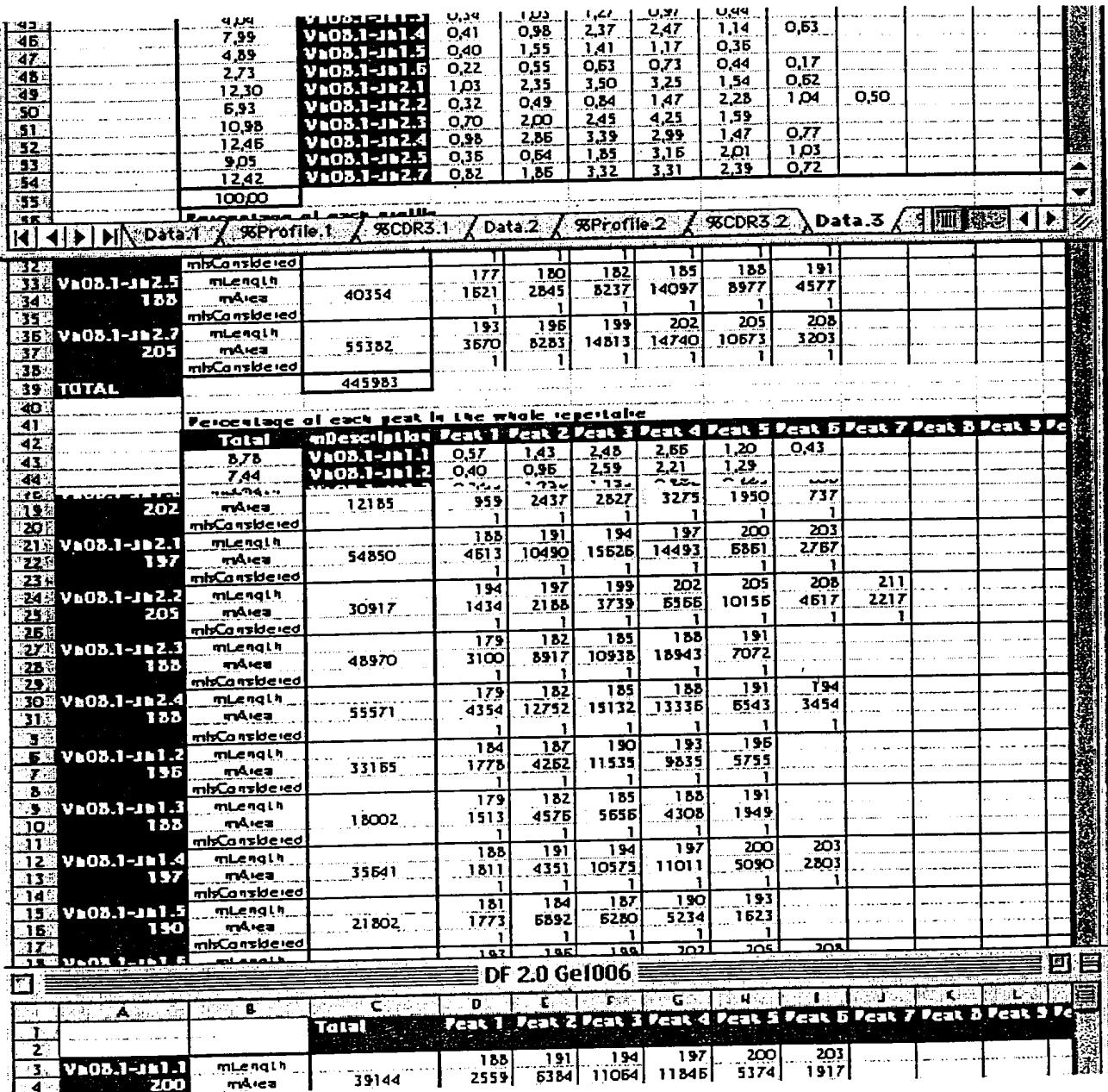
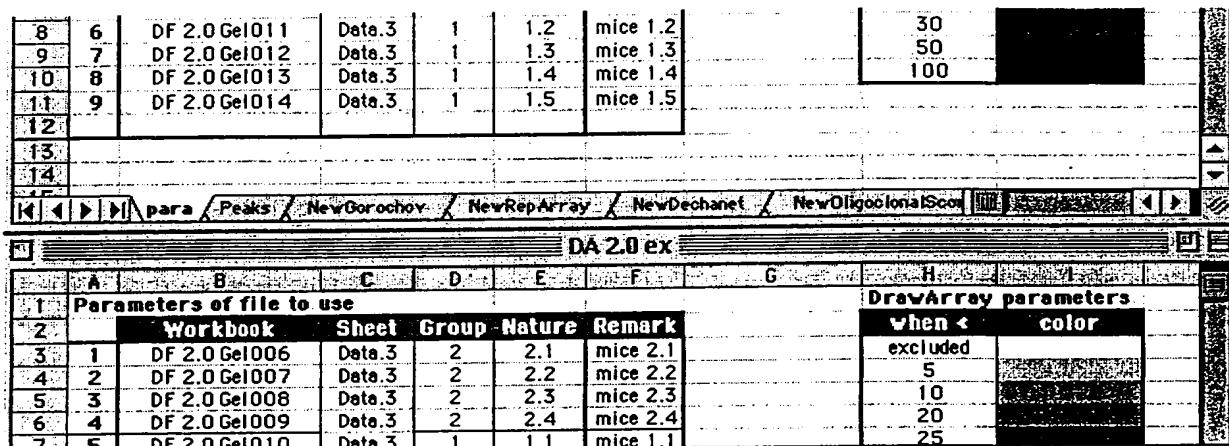


FIG. 19

FIG. 20



29	Yb08.1-Jb1.4	12	203	177	length failed	0,00	length failed	0,00	length failed	0,00
31	Yb08.1-Jb1.5	5	175	190	181	8,13	181	9,23	181	7,73
32	Yb08.1-Jb1.5	7	181	190	184	31,61	184	32,96	184	49,39
33	Yb08.1-Jb1.5	8	184	190	187	28,80	187	42,12	187	33,11
34	Yb08.1-Jb1.5	9	187	190	190	24,01	190	15,69	190	9,77
35	Yb08.1-Jb1.5	10	190	190	193	7,44	length failed	0,00	length failed	0,00
36	Yb08.1-Jb1.5	11	193	190	193	7,44	length failed	0,00	length failed	0,00
22	Yb08.1-Jb1.3	11	191	188	191	10,83	191	15,18	191	10,60
23	Yb08.1-Jb1.3	12	194	188	length failed	0,00	length failed	0,00	length failed	0,00
24	Yb08.1-Jb1.3	14	200	188	length failed	0,00	200	4,41	length failed	0,00
25	Yb08.1-Jb1.4	7	188	197	188	5,08	188	7,97	188	8,42
26	Yb08.1-Jb1.4	8	191	197	191	12,21	191	17,04	191	8,44
27	Yb08.1-Jb1.4	9	194	197	194	29,67	194	31,29	194	34,29
28	Yb08.1-Jb1.4	10	197	197	197	30,89	197	34,35	197	35,09
29	Yb08.1-Jb1.4	11	200	197	200	14,28	200	9,35	200	13,75
30	Yb08.1-Jb1.2	8	190	196	190	34,78	190	30,53	190	46,50
31	Yb08.1-Jb1.2	9	193	196	193	29,65	193	34,37	192	33,93
32	Yb08.1-Jb1.2	10	196	196	196	17,35	196	21,79	196	9,61
33	Yb08.1-Jb1.2	11	199	196	length failed	0,00	199	4,99	length failed	0,00
34	Yb08.1-Jb1.3	5	173	188	length failed	0,00	length failed	0,00	length failed	0,00
35	Yb08.1-Jb1.3	7	179	188	179	8,40	179	5,64	length failed	0,00
36	Yb08.1-Jb1.3	8	182	186	182	25,42	182	12,34	182	25,25
20	Yb08.1-Jb1.3	9	185	188	185	31,42	185	33,87	185	40,10
21	Yb08.1-Jb1.3	10	188	200	188	23,93	188	26,76	188	24,05
22	Yb08.1-Jb1.1	7	191	200	191	16,31	191	13,25	191	15,04
23	Yb08.1-Jb1.1	8	194	200	194	28,26	194	28,49	194	27,58
24	Yb08.1-Jb1.1	9	197	200	197	30,26	197	34,75	197	32,29
25	Yb08.1-Jb1.1	10	200	200	200	13,73	200	10,47	200	13,37
26	Yb08.1-Jb1.1	11	203	200	203	4,90	203	6,27	203	3,24
27	Yb08.1-Jb1.2	5	181	196	length failed	0,00	length failed	0,00	length failed	0,00
28	Yb08.1-Jb1.2	6	184	196	184	5,36	length failed	0,00	184	4,20
29	Yb08.1-Jb1.2	7	187	196	187	12,85	187	8,33	187	5,76

	A	B	C	D	E	F	G	H	I	J
1	mDescription	CDR3 (aa)	Length (nt)	CDR3 10 aa	2.1	Length %	2.2	Length %	2.3	Length %
2										
3	Yb08.1-Jb1.1	5	185	200	length failed	0,00	length failed	0,00	length failed	0,00

FIG. 21

	Yb08.1-Jb1.5	11804	18174	10107	91572	15559	34481	18056	22855	8884
21	Yb08.1-Jb1.6	12185	6567	29306	31277	7754	32974	10283	14622	28401
22	Yb08.1-Jb2.1	54850	75547	177878	268231	30660	147812	79788	174998	274977
23	Yb08.1-Jb2.2	30917	28358	78625	157702	15884	34825	39808	85689	180862
24	Yb08.1-Jb2.3	48970	21081	124696	210396	19807	59996	18150	71517	287295
25	Yb08.1-Jb2.4	55571	38987	125304	230803	30422	141434	29346	72069	194977
26	Yb08.1-Jb2.5	40354	44418	144331	203621	28853	137020	42234	68872	124007
27	Yb08.1-Jb2.7	55382	55310	127157	252387	39974	89281	38982	82712	354859
28										
	Peaks	NewPercentImport	NewGorobcov	NewRepArray	N					
10	Yb08.1-Jb2.3	10,98	4,81	9,63	9,27	6,71	5,41	5,14	8,05	13,52
11	Yb08.1-Jb2.4	12,46	8,90	9,68	10,17	10,31	12,75	8,32	8,11	9,17
12	Yb08.1-Jb2.5	9,05	10,14	11,15	8,97	9,78	12,35	11,97	7,75	5,84
13	Yb08.1-Jb2.7	12,42	12,62	9,82	11,12	13,55	8,05	11,05	9,31	16,70
14										
15		2,1	2,2	2,3	2,4	1,1	1,2	1,3	1,4	1,5
16	Yb08.1-Jb1.1	39144	39387	145864	249425	36087	119154	16663	156203	285994
17	Yb08.1-Jb1.2	33165	37208	102266	225983	48280	134508	28366	66293	112294
18	Yb08.1-Jb1.3	18002	26363	60653	108024	5593	68404	excluded	45164	30231
19	Yb08.1-Jb1.4	35641	46797	108585	240973	16392	89268	31214	27163	152436
	B	C	D	E	F	G	H	I	J	K
1		2,1	2,2	2,3	2,4	1,1	1,2	1,3	1,4	1,5
2	Yb08.1-Jb1.1	8,78	8,99	11,27	10,99	12,23	10,74	4,72	17,59	13,46
3	Yb08.1-Jb1.2	7,44	8,49	7,90	9,95	16,36	12,13	8,04	7,46	5,28
4	Yb08.1-Jb1.3	4,04	6,02	4,68	4,76	1,90	6,17	excluded	5,09	1,42
5	Yb08.1-Jb1.4	7,99	10,68	8,39	10,61	5,56	8,05	8,85	3,06	7,17
6	Yb08.1-Jb1.5	4,69	4,15	5,41	4,03	5,21	4,91	5,12	2,57	4,65
7	Yb08.1-Jb1.6	2,73	1,50	2,26	1,58	2,63	2,97	2,91	1,65	1,34
8	Yb08.1-Jb2.1	12,30	17,24	13,74	11,81	10,39	13,33	22,61	19,70	12,94
9	Yb08.1-Jb2.2	6,93	6,47	6,07	6,95	5,38	3,14	11,28	9,65	8,51

FIG. 22

		184	3,39	1,97	-3,39	0,81	0,62
		187	9,51	3,34	-1,19	-3,75	1,60
		190	34,15	0,63	-3,62	12,35	-9,36
		193	35,33	-5,67	-0,96	1,40	8,03
		196	16,37	0,99	5,42	-6,76	0,35
		199	1,25	-1,25	3,74	-1,25	-1,25
		173	0,00	0,00	0,00	0,00	0,00
		179	4,60	3,80	1,04	-4,60	-0,25
		182	19,36	6,06	-7,02	5,89	-4,93
14	mDescription	7,69	7,56	9,44	9,12	40,49	34,
15	Length	Pc (Control)	2.1	2.2	2.3	2.4	
16	Yb08.1-Jb1.1	185	0,00	0,00	0,00	0,00	0,00
17	Yb08.1-Jb1.1	188	6,53	0,01	0,24	1,96	-2,21
18	Yb08.1-Jb1.1	191	14,91	1,40	-1,66	0,13	0,13
19	Yb08.1-Jb1.1	194	26,97	1,30	1,53	0,61	-3,44
20	Yb08.1-Jb1.1	197	32,46	-2,20	2,29	-0,18	0,10
21	Yb08.1-Jb1.1	200	14,50	-0,77	-4,04	-1,13	5,94
22	Yb08.1-Jb1.1	203	4,63	0,27	1,64	-1,39	-0,52
23	Yb08.1-Jb1.2	181	0,00	0,00	0,00	0,00	0,00
24	Yb08.1-Jb1.3	10,66	6,99	11,06	12,30	58,21	49,68
25	Yb08.1-Jb2.2	11,69	7,19	12,92	10,55	40,74	55,34
26	Yb08.1-Jb1.6	6,54	9,24	12,42	11,68	41,39	42,13
27	Yb08.1-Jb1.1	2,97	5,69	2,70	6,17	43,18	40,58
28	Yb08.1-Jb2.4	6,66	11,63	12,88	7,54	53,23	36,98
29	Yb08.1-Jb2.7	3,29	4,40	4,48	6,20	19,62	34,11
30	Yb08.1-Jb2.1	6,94	7,17	5,74	7,94	36,47	31,97
31	Yb08.1-Jb1.2	6,92	9,16	13,16	10,61	54,92	13,03
32	Yb08.1-Jb2.3	7,21	6,57	10,14	6,48	32,73	25,06
33	Yb08.1-Jb1.4	6,63	7,13	6,98	7,46	35,95	14,53
34	Yb08.1-Jb2.5	9,46	9,34	5,78	9,18	27,10	25,04
		DA 2.0 ex					
	A	B	C	D	E	F	G
1		2.1	2.2	2.3	2.4	1.1	1.2
2	Yb08.1-Jb1.5	13,25	4,44	15,07	13,32	62,32	42,58

FIG. 23

25	Yb08.1-Jb1.2	5	181	0,00	0,00	0,00	0,00
26	Yb08.1-Jb1.2	6	184	0,28	0,01	0,08	0,00
27	Yb08.1-Jb1.2	7	187	0,81	0,02	0,01	0,12
28	Yb08.1-Jb1.2	8	190	2,83	0,06	0,06	0,71
29	Yb08.1-Jb1.2	9	193	3,03	0,68	0,01	0,12
30	Yb08.1-Jb1.2	10	196	1,39	0,01	0,21	0,40
31	Yb08.1-Jb1.2	11	199	0,11	0,01	0,10	0,01
32	Yb08.1-Jb1.3	5	173	0,00	0,00	0,00	0,00
15							
16							
2	mDescription	CDR3 (aa)	PCR length (Pc (Control))	2,1	2,2	2,3	
18	Yb08.1-Jb1.1	5	185	0,00	0,00	0,00	0,00
19	Yb08.1-Jb1.1	6	188	0,65	0,01	0,00	0,09
20	Yb08.1-Jb1.1	7	191	1,49	0,00	0,09	0,04
21	Yb08.1-Jb1.1	8	194	2,68	0,04	0,01	0,18
22	Yb08.1-Jb1.1	9	197	3,25	0,35	0,02	0,15
23	Yb08.1-Jb1.1	10	200	1,47	0,07	0,28	0,00
24	Yb08.1-Jb1.1	11	203	0,45	0,00	0,01	0,01
25	Yb08.1-Jb1.3	0,62	0,72	0,45	0,55	1,67	3,78
26	Yb08.1-Jb1.4	1,06	0,98	0,65	0,88	2,31	1,13
27	Yb08.1-Jb1.5	0,60	0,30	1,07	0,74	3,96	2,58
28	Yb08.1-Jb1.6	0,35	0,25	0,31	0,36	1,10	1,22
29	Yb08.1-Jb2.1	1,25	2,08	0,67	1,24	4,13	4,81
30	Yb08.1-Jb2.2	0,72	0,38	0,59	0,63	2,07	2,19
31	Yb08.1-Jb2.3	1,46	1,93	0,95	0,74	2,62	2,39
32	Yb08.1-Jb2.4	1,20	1,34	0,97	0,59	6,17	4,18
33	Yb08.1-Jb2.5	1,00	1,09	0,86	0,87	2,82	3,41
34	Yb08.1-Jb2.7	0,58	0,55	0,72	0,65	2,78	2,80
2				DA 2.0 ex			
2	Dechantet scores	B	C	D	E	F	G
2	Sample	2,1	2,2	2,3	2,4	1,1	1,2
3	Yb08.1-Jb1.1	3,20	3,74	2,76	2,92	14,41	11,07
4	Yb08.1-Jb1.2	0,69	0,65	0,69	0,88	4,94	4,81

FIG. 24

25	Yb08.1-Jb1.4	8	191	13,46	0,91	1,27	0,63	1,20	0,00	0,69	1,24	
26	Yb08.1-Jb1.4	9	194	32,25	0,92	0,97	1,06	1,05	2,04	1,40	1,10	
127	Yb08.1-Jb1.4	10	197	31,80	0,97	1,08	1,10	0,84	1,07	1,05	1,24	
28	Yb08.1-Jb1.4	11	200	13,55	1,05	0,69	1,01	1,24	0,00	0,89	0,62	
29	Yb08.1-Jb1.4	12	203	1,97	4,00	0,00	0,00	0,00	0,00	0,00	0,00	
30	Yb08.1-Jb1.5	5	175	0,00	∞	∞	∞	∞	∞	∞	∞	
31	Yb08.1-Jb1.5	7	181	9,80	0,83	0,94	0,79	1,44	0,00	1,10	0,00	
32	Yb08.1-Jb1.5	8	184	34,32	0,92	0,96	1,44	0,68	0,00	0,29	0,61	
	NewDechanet	NewRIS	NewOligo	Score	NewRepArray							
15	Yb08.1-Jb1.2	11	199	1,25	0,00	4,00	0,00	0,00	0,00	0,00	0,00	
16	Yb08.1-Jb1.3	5	173	0,00	∞	∞	∞	∞	∞	∞	∞	excluded
17	Yb08.1-Jb1.3	7	179	4,60	1,83	1,23	0,00	0,95	0,00	0,00	0,00	excluded
18	Yb08.1-Jb1.3	8	182	19,36	1,31	0,64	1,30	0,75	0,00	0,75	0,75	excluded
19	Yb08.1-Jb1.3	9	185	35,83	0,88	0,95	1,12	1,06	0,71	2,39	0,00	excluded
20	Yb08.1-Jb1.3	10	188	23,14	1,03	1,23	1,04	0,69	2,19	0,00	0,00	excluded
21	Yb08.1-Jb1.3	11	191	14,24	0,76	1,07	0,74	1,43	0,93	0,00	0,00	excluded
22	Yb08.1-Jb1.3	12	194	0,00	∞	∞	∞	∞	∞	∞	∞	excluded
23	Yb08.1-Jb1.3	14	200	2,83	0,00	1,56	0,00	2,44	0,00	0,00	0,00	excluded
24	Yb08.1-Jb1.4	7	188	6,98	0,73	1,14	1,21	0,92	0,00	0,00	0,00	
5	Yb08.1-Jb1.1	8	194	26,97	1,05	1,06	1,02	0,87	1,65	1,05	0,76	
6	Yb08.1-Jb1.1	9	197	32,46	0,93	1,07	0,99	1,00	0,46	0,80	1,62	
7	Yb08.1-Jb1.1	10	200	14,50	0,95	0,72	0,92	1,41	0,00	0,00	0,63	
8	Yb08.1-Jb1.1	11	203	4,63	1,06	1,35	0,70	0,89	0,00	0,00	0,00	
9	Yb08.1-Jb1.2	5	181	0,00	∞	∞	∞	∞	∞	∞	∞	
10	Yb08.1-Jb1.2	6	184	3,39	1,58	0,00	1,24	1,18	15,71	0,00	0,00	
11	Yb08.1-Jb1.2	7	187	9,51	1,35	0,88	0,61	1,17	1,52	0,73	0,70	
12	Yb08.1-Jb1.2	8	190	34,15	1,02	0,89	1,36	0,73	0,39	1,03	0,63	
13	Yb08.1-Jb1.2	9	193	35,33	0,84	0,97	0,96	1,23	0,53	0,84	0,92	
14	Yb08.1-Jb1.2	10	196	16,37	1,06	1,33	0,59	1,02	0,00	1,47	2,40	
					DA 2.0 ex							
					B	C	D	E	F	G	H	I
1	mDescription	CDR3 (aa)	Length (nt)	Pc (Control)	2.1	2.2	2.3	2.4	1.1	1.2	1.3	
2	Yb08.1-Jb1.1	5	185	0,00	∞	∞	∞	∞	∞	∞	∞	
3	Yb08.1-Jb1.1	6	188	6,53	1,00	1,04	1,30	0,66	0,00	7,01	0,00	
4	Yb08.1-Jb1.1	7	191	14,91	1,09	0,89	1,01	1,01	2,71	0,00	1,20	

FIG. 25

FIG. 26

FIG. 27

Depiction of overall disturbance

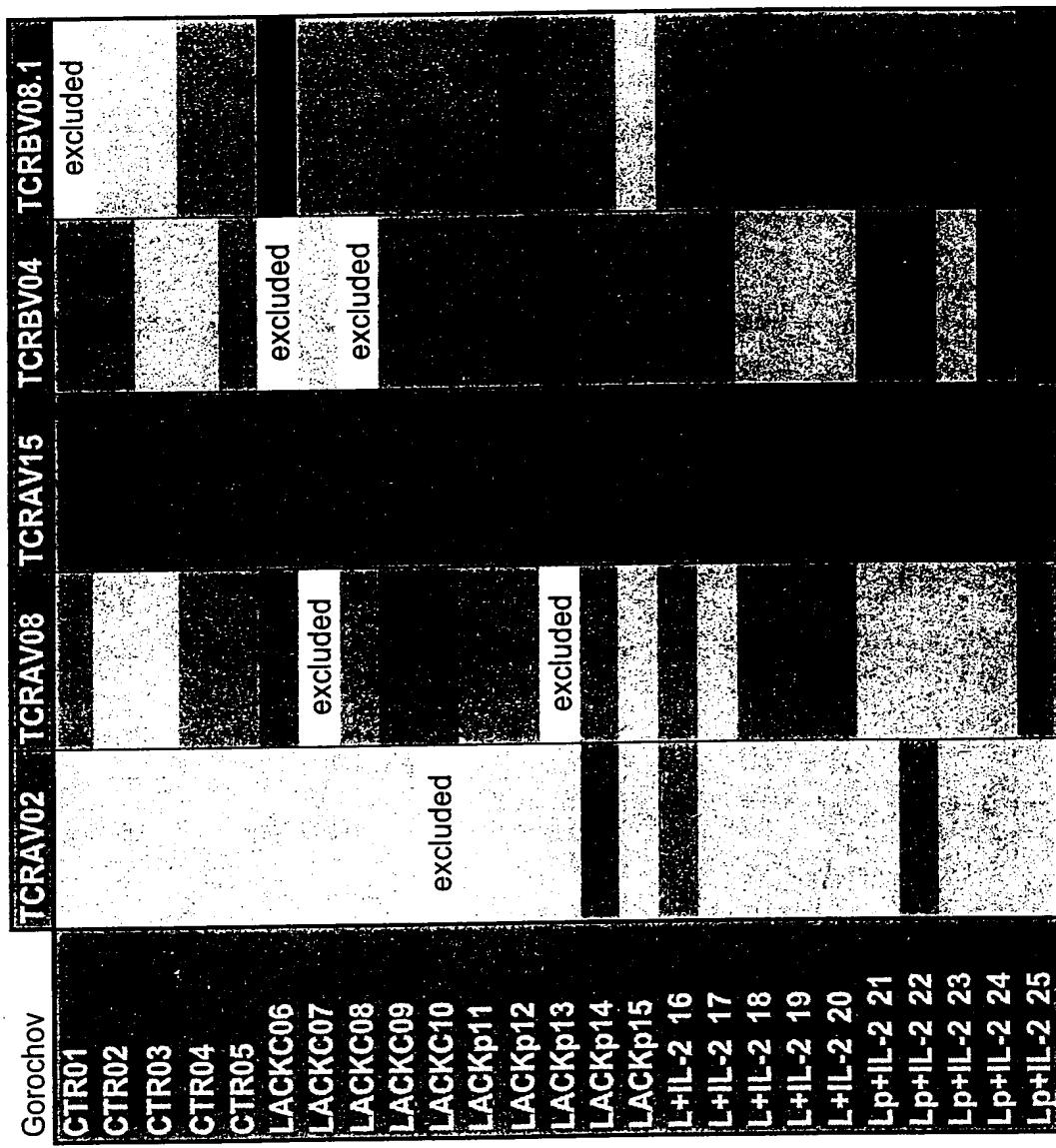


FIG. 28A

Depiction of overall disturbance

Gorochov	TCRAV02	TCRAV08	TCRAV15	TCRBV04	TCRBV08.1
CTR01	1,94	5,17	16,38	7,82	excluded
CTR02	0,63	3,77	19,38	5,23	2,82
CTR03	2,02	2,32	11,74	4,74	3,22
CTR04	2,81	7,01	11,51	2,80	5,55
CTR05	0,82	7,29	11,99	5,03	7,24
LACKC06	2,44	14,70	17,39	excluded	43,90
LACKC07	2,23	excluded	17,82	4,25	8,94
LACKC08	2,12	7,71	18,51	excluded	5,66
LACKC09	0,79	11,32	18,32	6,00	5,46
LACKC10	excluded	11,38	15,27	5,60	9,13
LACKp11	2,15	8,99	16,37	9,01	5,81
LACKp12	2,34	9,68	20,34	6,97	10,19
LACKp13	4,27	excluded	16,72	12,33	9,34
LACKp14	10,36	7,12	16,63	6,22	6,59
LACKp15	2,79	3,09	20,18	8,52	3,89
L+IL-2 16	5,17	6,09	19,78	5,63	8,77
L+IL-2 17	4,51	2,94	16,81	6,25	8,94
L+IL-2 18	2,29	5,91	19,72	4,14	10,65
L+IL-2 19	2,52	9,62	18,48	4,89	8,58
L+IL-2 20	4,53	7,69	20,02	4,76	6,80
Lp+IL-2 21	2,55	4,89	19,57	5,47	8,78
Lp+IL-2 22	5,50	4,15	14,00	6,33	7,12
Lp+IL-2 23	2,33	3,19	18,08	4,43	9,80
Lp+IL-2 24	3,27	4,84	20,00	7,23	10,53
Lp+IL-2 25	4,83	5,70	19,00	36,51	35,78

DrawArray parameters	
When <	color
excluded	
5	
10	
20	
25	
30	
50	
100	

FIG. 28 B

Depiction of overall disturbance versus oligocionality

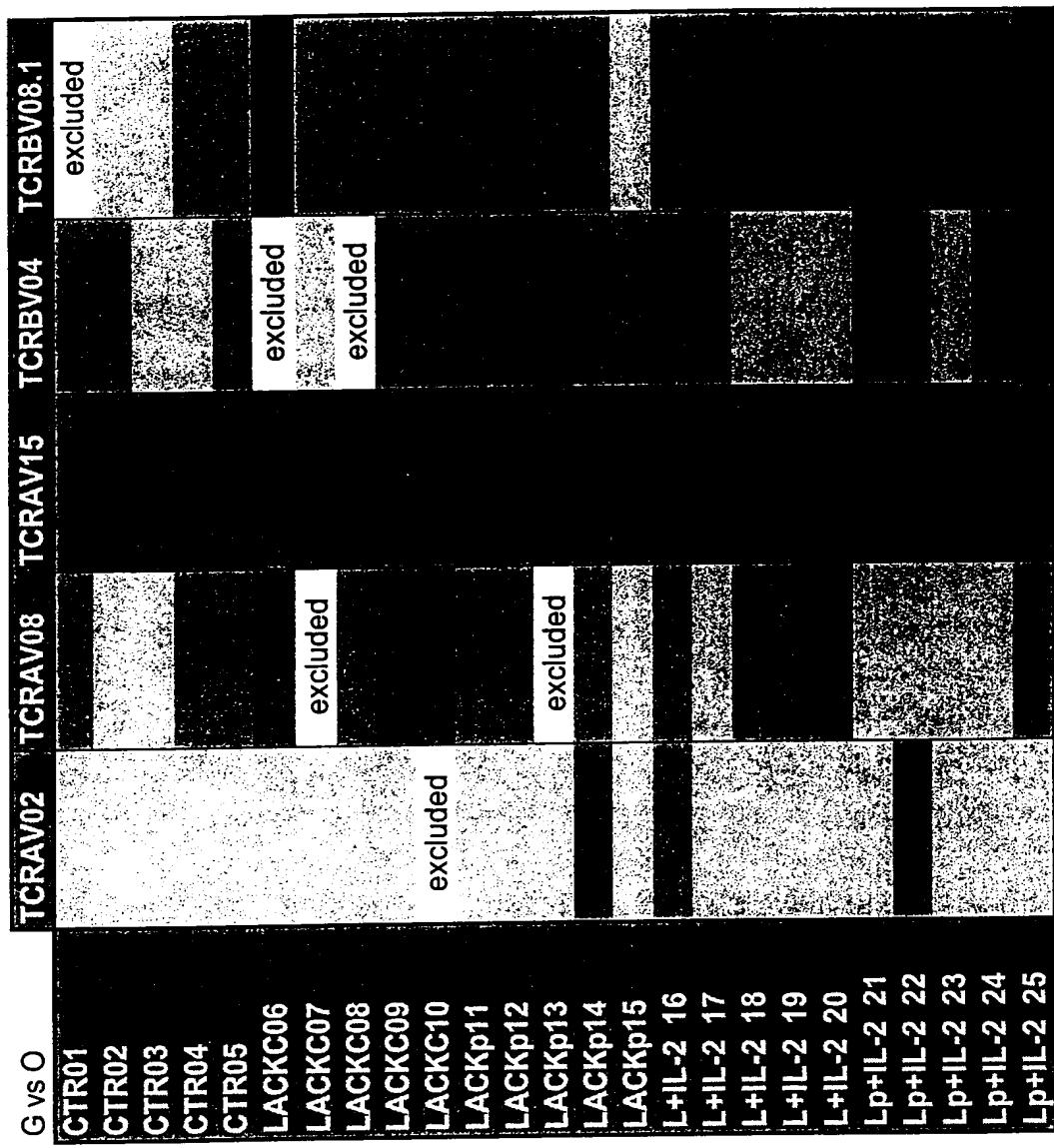


FIG 28 C

Depiction of overall disturbance versus oligoclonality

G vs O	TCRAV02	TCRAV08	TCRAV15	TCRBV04	TCRBV08.1
CTR01	1,94	5,17	16,38	7,82	excluded
CTR02	0,63	3,77	19,38	5,23	2,82
CTR03	2,02	2,32	11,74	4,74	3,22
CTR04	2,81	7,01	11,51	2,80	5,55
CTR05	0,82	7,29	11,99	5,03	7,24
LACKC06	2,44	14,70	17,39	excluded	43,90
LACKC07	2,23	excluded	17,82	4,25	8,94
LACKC08	2,12	7,71	18,51	excluded	5,66
LACKC09	0,79	11,32	18,32	6,00	5,46
LACKC10	excluded	11,38	15,27	5,60	9,13
LACKp11	2,15	8,99	16,37	9,01	5,81
LACKp12	2,34	9,68	20,34	6,97	10,19
LACKp13	4,27	excluded	16,72	12,33	9,34
LACKp14	10,36	7,12	16,63	6,22	6,59
LACKp15	2,79	3,09	20,18	8,52	3,89
L+IL-2 16	5,17	6,09	19,78	5,63	8,77
L+IL-2 17	4,51	2,94	16,81	6,25	8,94
L+IL-2 18	2,29	5,91	19,72	4,14	10,65
L+IL-2 19	2,52	9,62	18,48	4,89	8,58
L+IL-2 20	4,53	7,69	20,02	4,76	6,80
Lp+IL-2 21	2,55	4,89	19,57	5,47	8,78
Lp+IL-2 22	5,50	4,15	14,00	6,33	7,12
Lp+IL-2 23	2,33	3,19	18,08	4,43	9,80
Lp+IL-2 24	3,27	4,84	20,00	7,23	10,53
Lp+IL-2 25	4,83	5,70	19,00	36,51	35,78

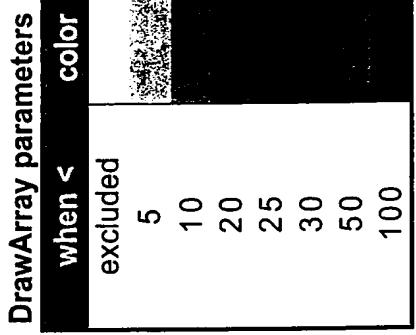


FIG. 28 D

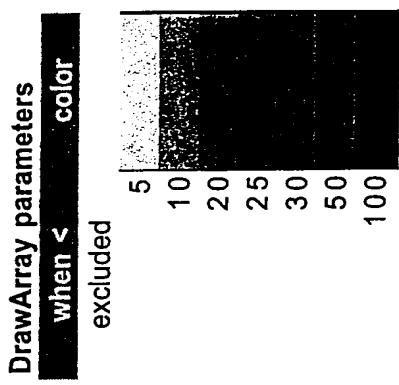
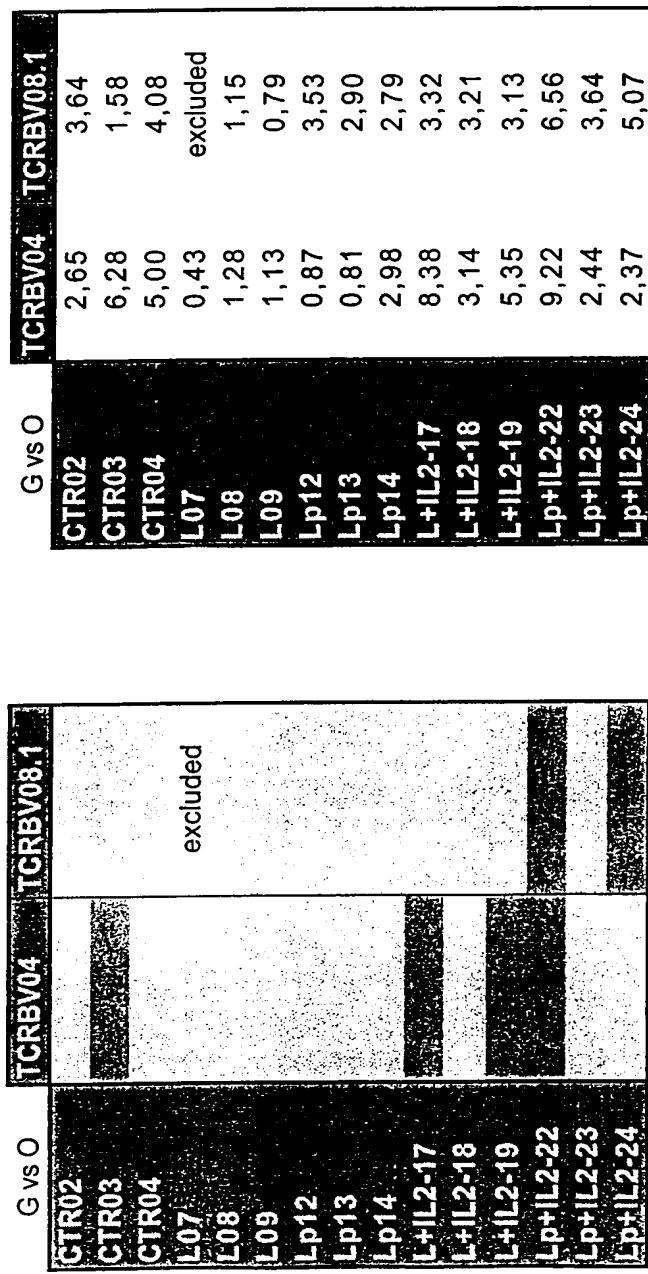
Parameters of file to use		Sheet	Group	Nature	Remarks
1	DF CC/281 AC by EF Delta1	Data.1	1	CTR01	
2	DF CC/281 AC by EF Delta1	Data.2	1	CTR02	
3	DF CC/281 AC by EF Delta1	Data.3	1	CTR03	
4	DF CC/281 AC by EF Delta1	Data.4	1	CTR04	
5	DF CC/281 AC by EF Delta1	Data.5	1	CTR05	
6	DF CC/281 AC by EF Delta1	Data.6	2	LACKC06	
7	DF CC/281 AC by EF Delta1	Data.7	2	LACKC07	
8	DF CC/281 AC by EF Delta1	Data.8	2	LACKC08	
9	DF CC/281 AC by EF Delta1	Data.9	2	LACKC09	
10	DF CC/281 AC by EF Delta1	Data.10	2	LACKC10	
11	DF CC/281 AC by EF Delta1	Data.11	3	LACKP11	
12	DF CC/281 AC by EF Delta1	Data.12	3	LACKP12	
13	DF CC/282 AC by EF Delta1	Data.1	3	LACKP13	
14	DF CC/282 AC by EF Delta1	Data.2	3	LACKP14	
15	DF CC/282 AC by EF Delta1	Data.3	3	LACKP15	
16	DF CC/282 AC by EF Delta1	Data.4	4	+IL-2	16
17	DF CC/282 AC by EF Delta1	Data.5	4	+IL-2	17
18	DF CC/282 AC by EF Delta1	Data.6	4	+IL-2	18
19	DF CC/282 AC by EF Delta1	Data.7	4	+IL-2	19
20	DF CC/282 AC by EF Delta1	Data.8	4	+IL-2	20
21	DF CC/282 AC by EF Delta1	Data.9	5	p+IL-2	21
22	DF CC/282 AC by EF Delta1	Data.10	5	p+IL-2	22
23	DF CC/282 AC by EF Delta1	Data.11	5	p+IL-2	23
24	DF CC/282 AC by EF Delta1	Data.12	5	p+IL-2	24
25	DF CC/283 AC by EF Delta1	Data.1	5	p+IL-2	25

DrawArray parameters	
When < col	excluded

FIG. 29

FIG. 30A

Depiction of overall disturbance versus oligocionality



Depiction of overall disturbance

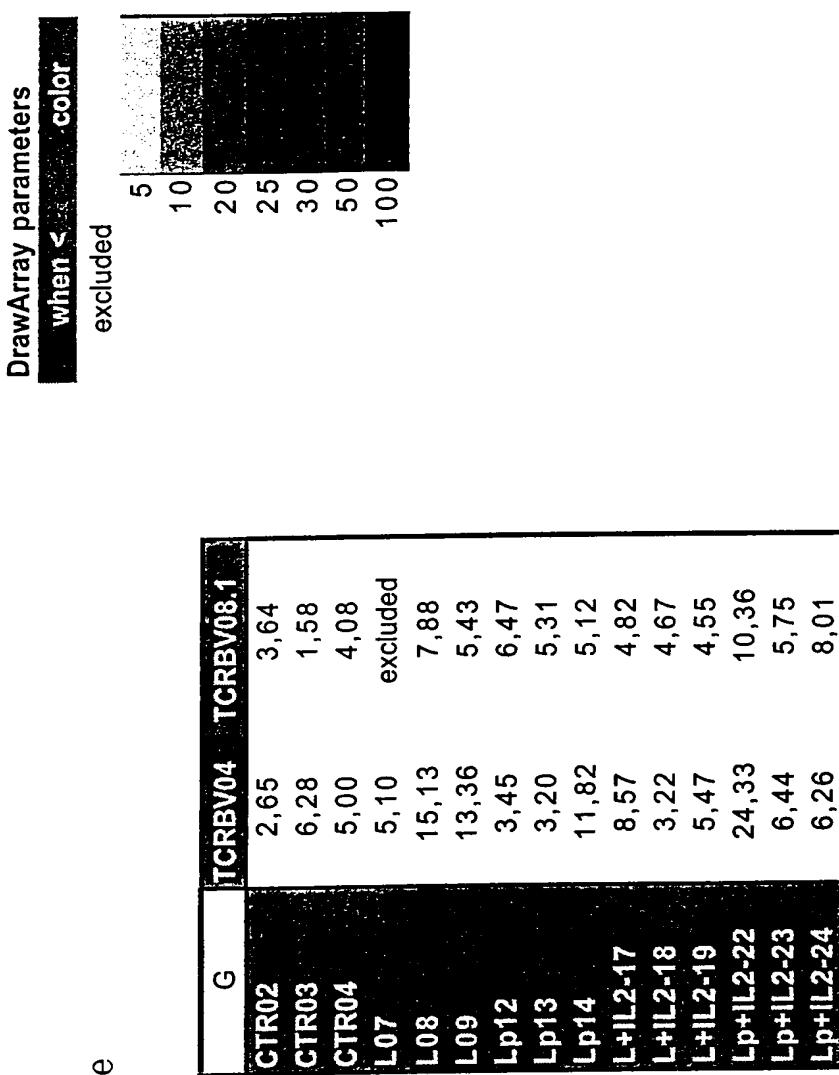
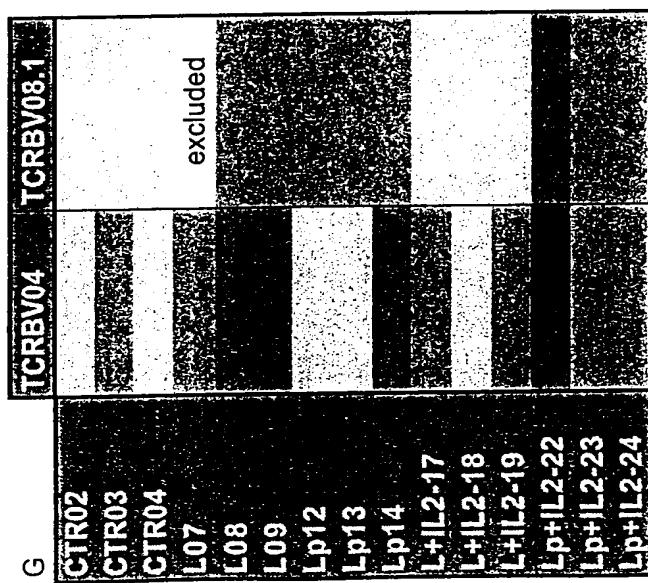


FIG. 30B

FIG. 31

Parameters of file to use		Workbook	Sheet	Group	Nature	Remark
1	EF/06 DF	Data.1	1	CTR02	CTR02	
2	EF/06 DF	Data.2	1	CTR03	CTR03	
3	EF/06 DF	Data.3	1	CTR04	CTR04	
4	EF/06 DF	Data.4	2	L07	Lack_07	
5	EF/06 DF	Data.5	2	L08	Lack_08	
6	EF/06 DF	Data.6	2	L09	Lack_09	
7	EF/06 DF	Data.7	3	Lp12	Lackp12	
8	EF/06 DF	Data.8	3	Lp13	Lackp13	
9	EF/06 DF	Data.9	3	Lp14	Lackp14	
10	EF/06 DF	Data.10	4	L+L2-17	Lack+L2-17	
11	EF/06 DF	Data.11	4	L+L2-18	Lack+L2-18	
12	EF/06 DF	Data.12	4	L+L2-19	Lack+L2-19	
13	EF/06 DF	Data.13	5	Lp+L2-22	Lackp+L2-22	
14	EF/06 DF	Data.14	5	Lp+L2-23	Lackp+L2-23	
15	EF/06 DF	Data.15	5	Lp+L2-24	Lackp+L2-24	

DrawArray parameters	
when <	color
excluded	
	5
	10
	20
	25
	30
	50
	100

Depiction of overall disturbance versus oligocionality

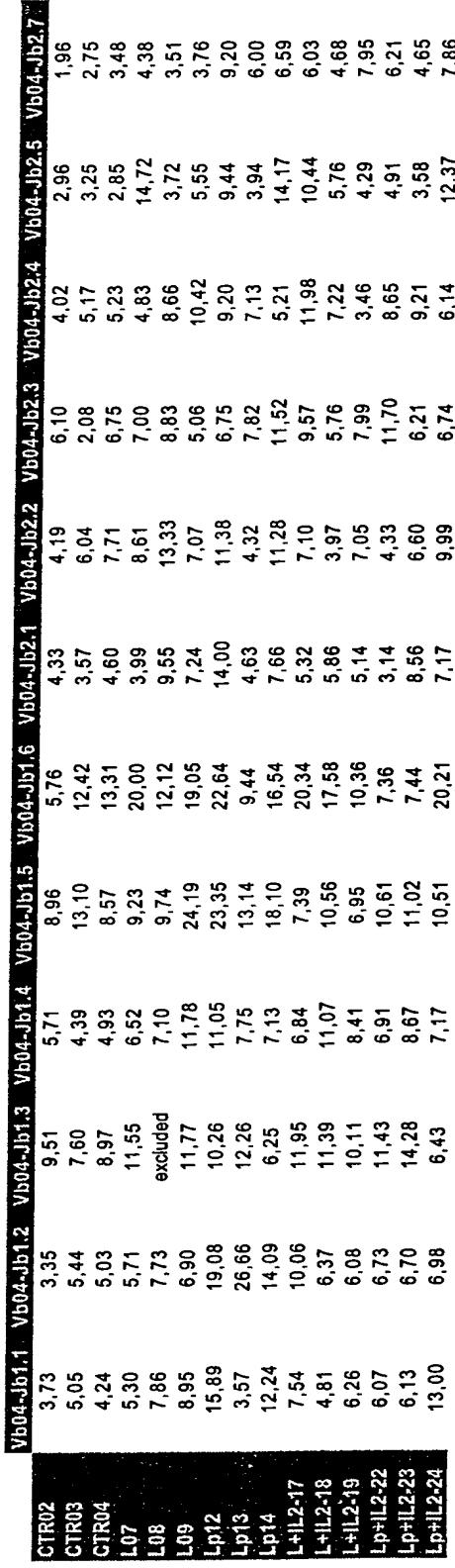
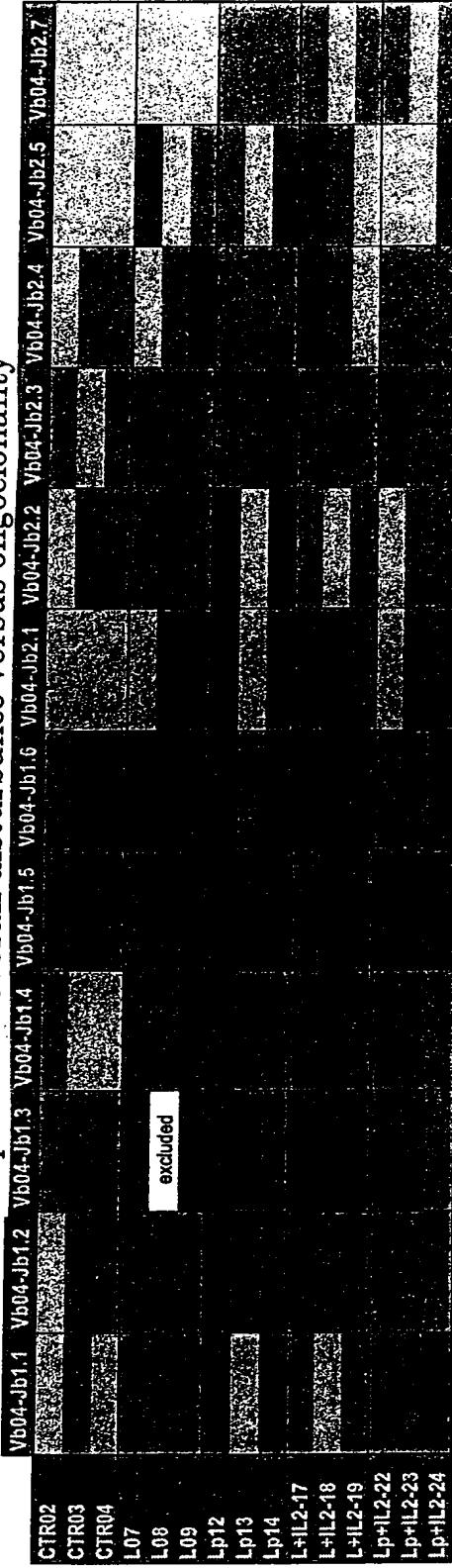
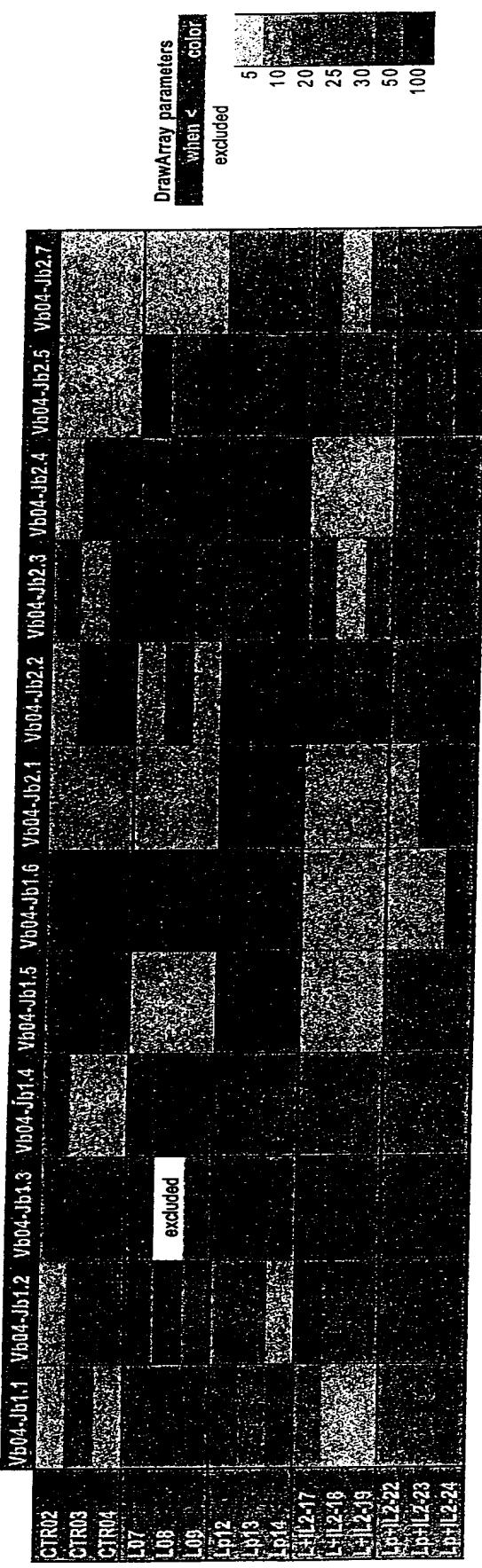


FIG. 32A

FIG. 32B

Depiction of overall disturbance



G vs O	Vb04-Jb1.1	Vb04-Jb1.2	Vb04-Jb1.3	Vb04-Jb1.4	Vb04-Jb1.5	Vb04-Jb1.6	Vb04-Jb1.7	Vb04-Jb2.1	Vb04-Jb2.2	Vb04-Jb2.3	Vb04-Jb2.4	Vb04-Jb2.5	Vb04-Jb2.7
CTR02	3.73	3.35	9.51	5.71	8.96	5.76	4.33	4.19	6.10	4.02	2.96	1.96	
CTR03	5.05	5.44	7.60	4.39	13.10	12.42	3.57	6.04	2.08	5.17	3.25	2.75	
CTR04	4.24	5.03	8.97	4.93	8.57	13.31	4.60	7.71	6.75	5.23	2.85	3.48	
L07	7.27	22.44	7.35	9.59	1.42	25.67	2.02	4.68	10.05	9.54	28.46	4.47	
L08	10.78	30.41	excluded	10.44	1.50	15.56	4.85	7.25	12.68	17.09	7.20	3.58	
L09	12.27	27.12	7.48	17.32	3.72	24.45	3.68	3.84	7.26	20.56	10.74	3.83	
L12	22.72	5.57	14.92	10.46	19.41	13.67	17.61	21.67	7.12	24.49	14.10	8.91	
L013	5.10	7.79	17.83	7.33	10.92	5.70	5.83	8.22	8.25	18.99	5.89	5.81	
L014	17.51	4.12	9.09	6.75	15.04	9.98	9.64	21.47	12.15	13.87	21.17	6.38	
L1+L2-17	5.46	10.20	25.21	5.22	2.38	2.12	1.87	10.36	7.47	3.09	13.90	6.42	
L1+L2-18	3.48	6.46	24.02	8.45	3.41	1.83	2.05	5.80	4.50	1.86	7.67	4.98	
L1+L2-19	4.53	6.17	21.31	6.41	2.25	1.08	1.80	10.29	6.23	0.89	5.71	8.47	
L1+L2-22	6.77	13.78	18.69	7.87	5.14	3.40	2.23	6.22	11.82	8.64	10.44	8.18	
L1+L2-23	6.85	13.71	23.36	9.87	5.34	3.44	6.07	9.49	6.27	9.20	7.62	6.12	
L1+L2-24	14.29	10.52	8.16	5.09	9.33	5.08	14.35	6.81	6.13	26.33	10.35		

Parameters of file to use					
	Workbook	Sheet	Group	Nature	Remark
1	EF/04 DF	Data.1	1	CTR02	CTR02
2	EF/05-07-009b DF	Data.3	1	CTR03	CTR03
3	EF/01-009b DF	Data.1	1	CTR04	CTR04
4	EF/02-07 DF	Data.1	2	L07	Lack 07
5	EF/04 DF	Data.5	2	L08	Lack 08
6	EF/05-07-009b DF	Data.5	2	L09	Lack 09
7	EF/04 DF	Data.3	3	Lp12	Lackp12
8	EF/05-07-009b DF	Data.1	3	Lp13	Lackp13
9	EF/01-009b DF	Data.5	3	Lp14	Lackp14
10	EF/03 DF	Data.1	4	L+L2-17	Lack+L2-17
11	EF/03 DF	Data.5	4	L+L2-18	Lack+L2-18
12	EF/02-07 DF	Data.3	4	L+L2-19	Lack+L2-19
13	EF/01-009b DF	Data.3	5	Lp+L2-22	Lackp+L2-22
14	EF/02-07 DF	Data.5	5	Lp+L2-23	Lackp+L2-23
15	EF/03 DF	Data.3	5	Lp+L2-24	Lackp+L2-24

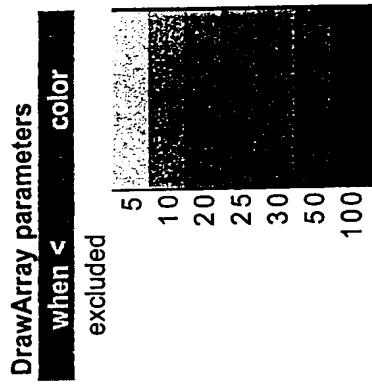


FIG. 33

Depiction of overall disturbance versus oligoclonality

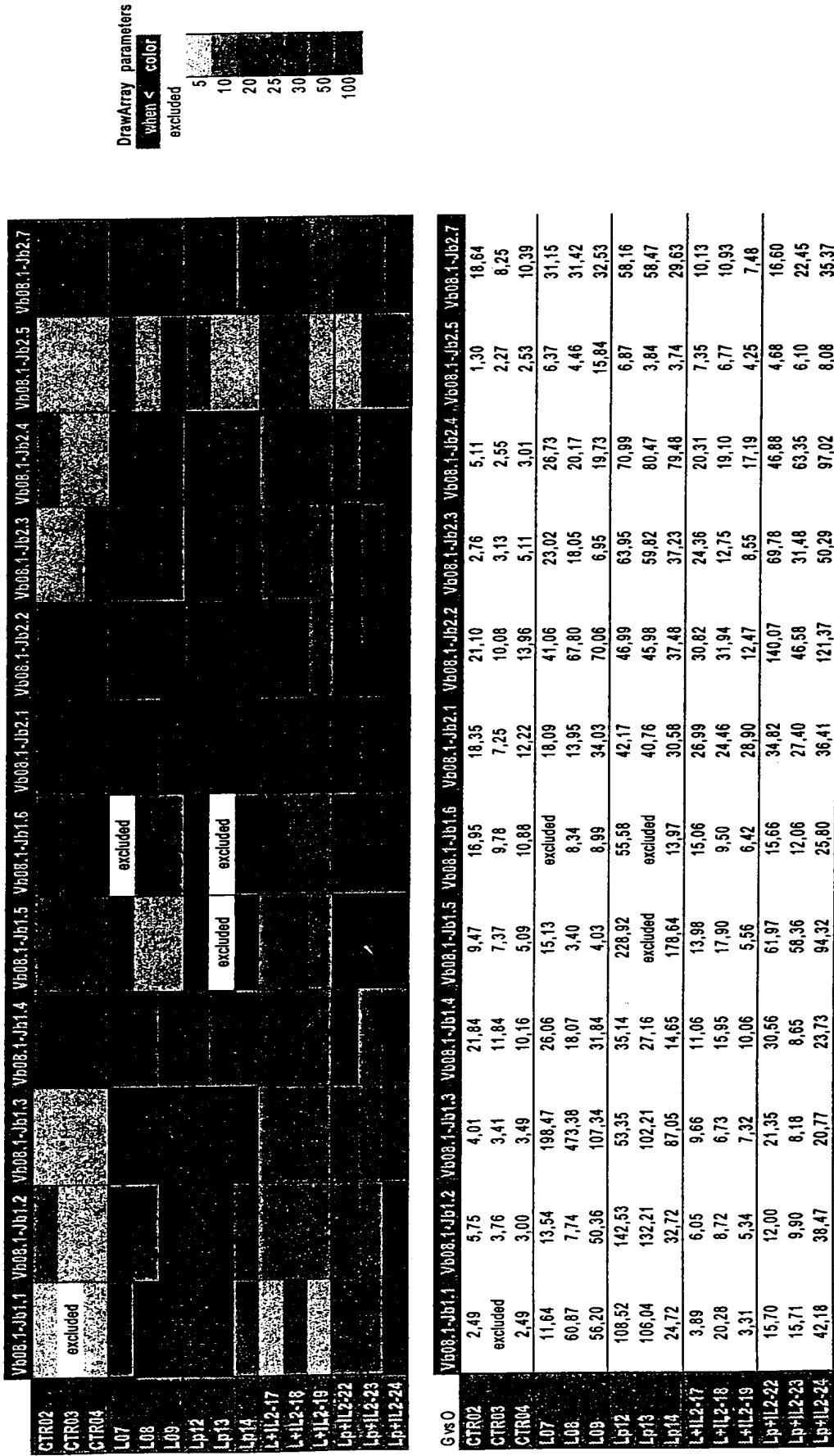


FIG. 34A

Depiction of overall disturbance

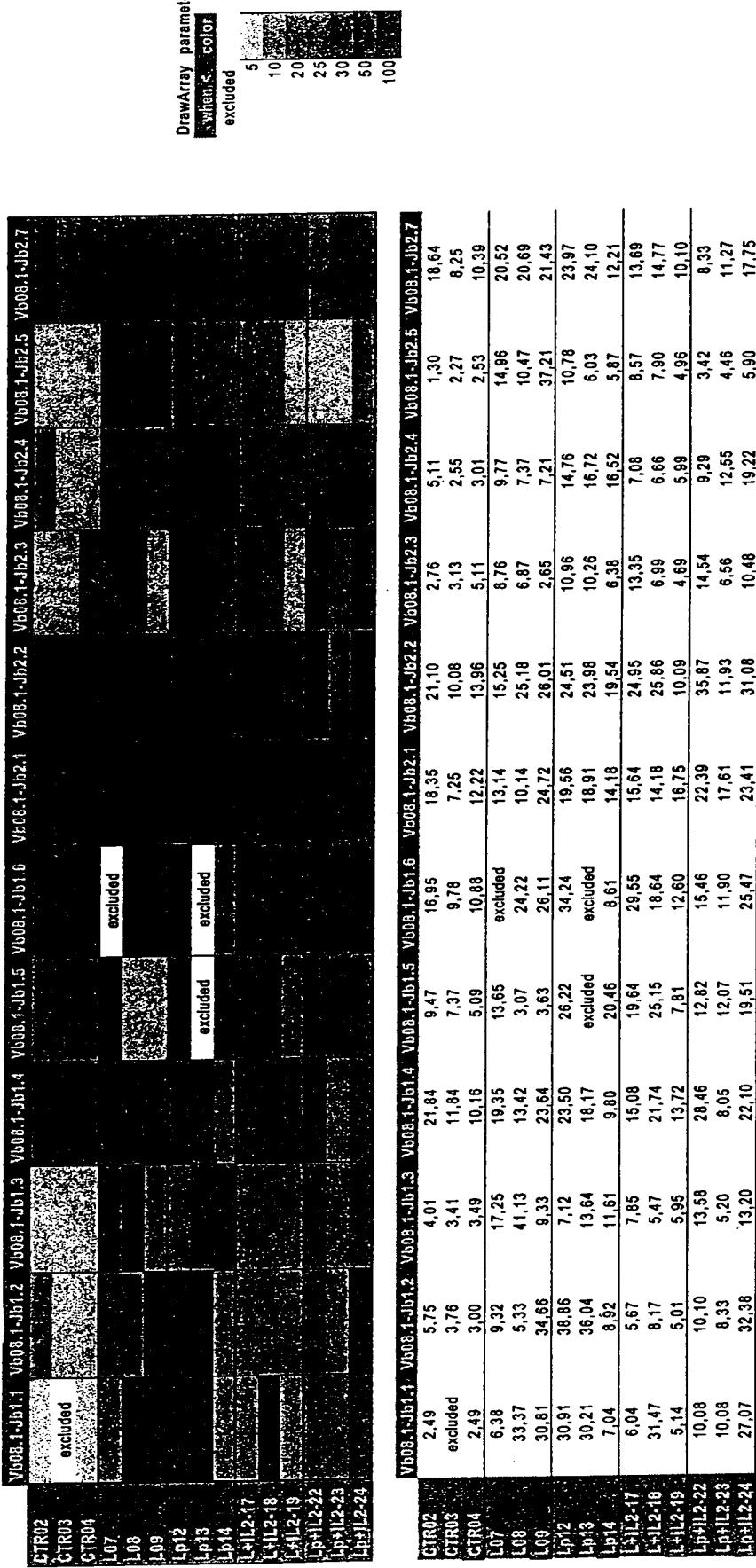


FIG. 34B

Parameters of file to use

	Workbook	Sheet	Group	Nature	Remark
1	EF/04 DF	Data.2	1	CTR02	CTR02
2	EF/05-07-009b DF	Data.4	1	CTR03	CTR03
3	EF/01-009b DF	Data.2	1	CTR04	CTR04
4	EF/02-07 DF	Data.2	2	L07	Lack 07
5	EF/04 DF	Data.6	2	L08	Lack 08
6	EF/05-07-009b DF	Data.6	2	L09	Lack 09
7	EF/04 DF	Data.4	3	Lp12	Lackp12
8	EF/05-07-009b DF	Data.2	3	Lp13	Lackp13
9	EF/01-009b DF	Data.6	3	Lp14	Lackp14
10	EF/03 DF	Data.2	4	L+IL2-17	Lack+IL2-17
11	EF/03 DF	Data.6	4	L+IL2-18	Lack+IL2-18
12	EF/02-07 DF	Data.4	4	L+IL2-19	Lack+IL2-19
13	EF/01-009b DF	Data.4	5	Lp+IL2-22	Lackp+IL2-22
14	EF/02-07 DF	Data.6	5	Lp+IL2-23	Lackp+IL2-23
15	EF/03 DF	Data.4	5	Lp+IL2-24	Lackp+IL2-24

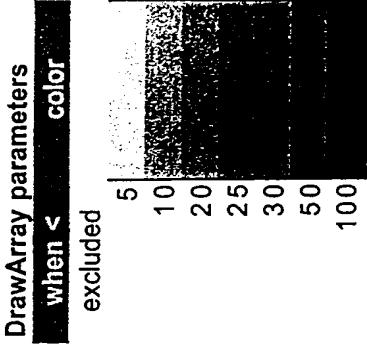


FIG. 35

Parameters of file to use		DA PWK/R-CD4+			
	Workbook	Sheet	Group	Nature	Remark
1	DF BB/013	Data.3	1	RJ0a	1
2	DF BB/013	Data.1	1	RJ0b	2
3	DF BB/013	Data.2	1	RJ0c	3
4	DF BB/014	Data.1	1	RJ0d	4
5	DF BB/017	Data.1	1	RJ0e	5
6	DF BB/017	Data.2	1	RJ0f	6
7	DF BB/005	Data.1	2	R7sa	7
8	DF BB/005	Data.2	2	R7sb	8
9	DF BB/005	Data.3	2	R7sc	9
10	DF BB/006	Data.2	2	R7sd	10
11	DF BB/006	Data.2	2	R7se	11
12	DF BB/006	Data.3	2	R7sf	12
13	DF BB/023	Data.1	3	R20sa	13
14	DF BB/023	Data.2	3	R20sb	14
15	DF BB/023	Data.3	3	R20sc	15
16	DF BB/024	Data.1	3	R20sd	16
17	DF BB/024	Data.2	3	R20se	17
18	DF BB/024	Data.3	3	R20sf	18
19	DF BB/031	Data.1	4	R27sa	19
20	DF BB/031	Data.2	4	R27sb	20
21	DF BB/031	Data.3	4	R27sc	21
22	DF BB/032	Data.1	4	R27sd	22
23	DF BB/032	Data.2	4	R27se	23
24	DF BB/032	Data.3	4	R27sf	24

FIG. 36

OBLON ET AL (703) 413-3000
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REPLACEMENT SHEET(S)

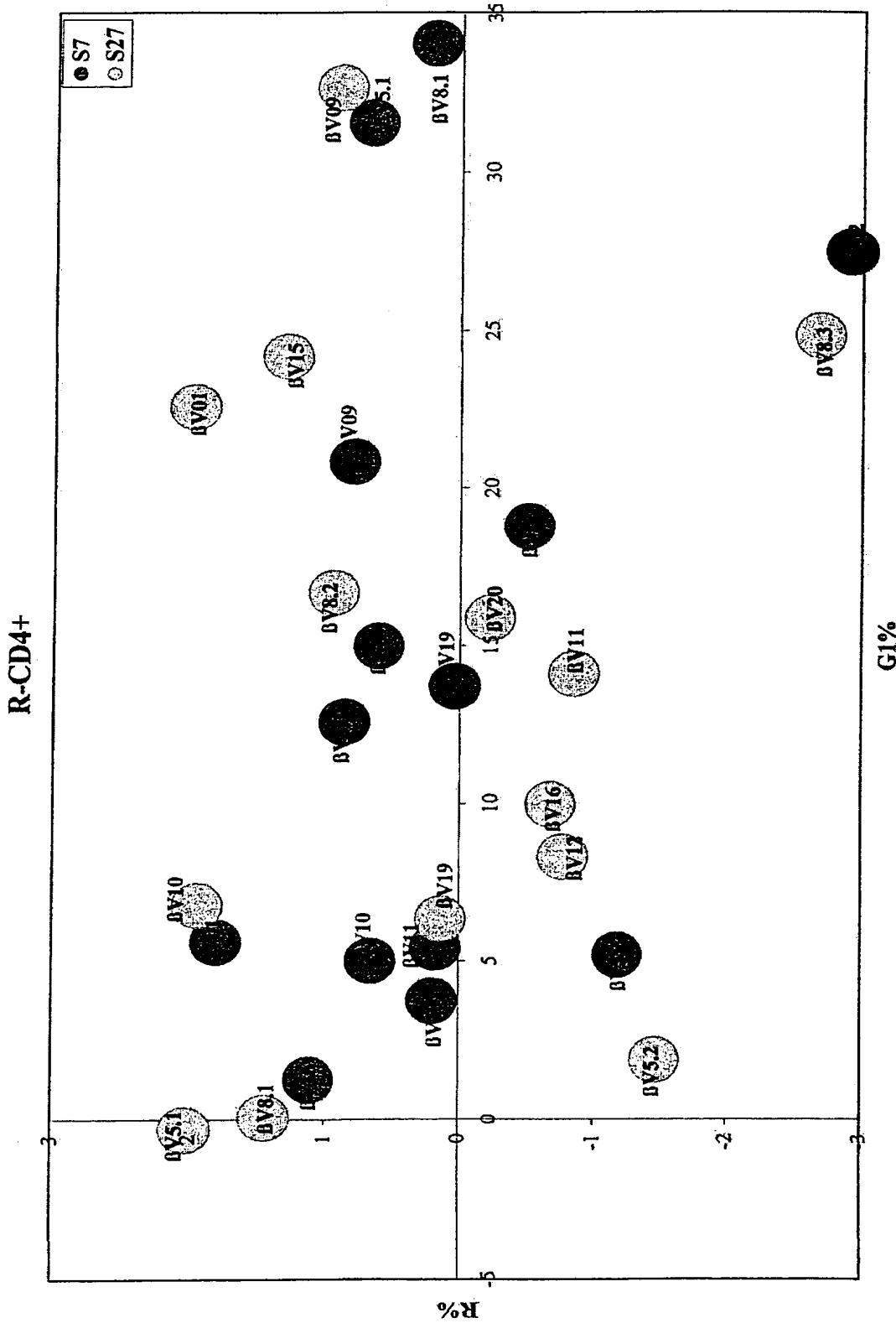


FIG. 37

OBLON ET AL (703) 413-3000
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 USSN 10/519,950
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 REPLACEMENT SHEET(S)

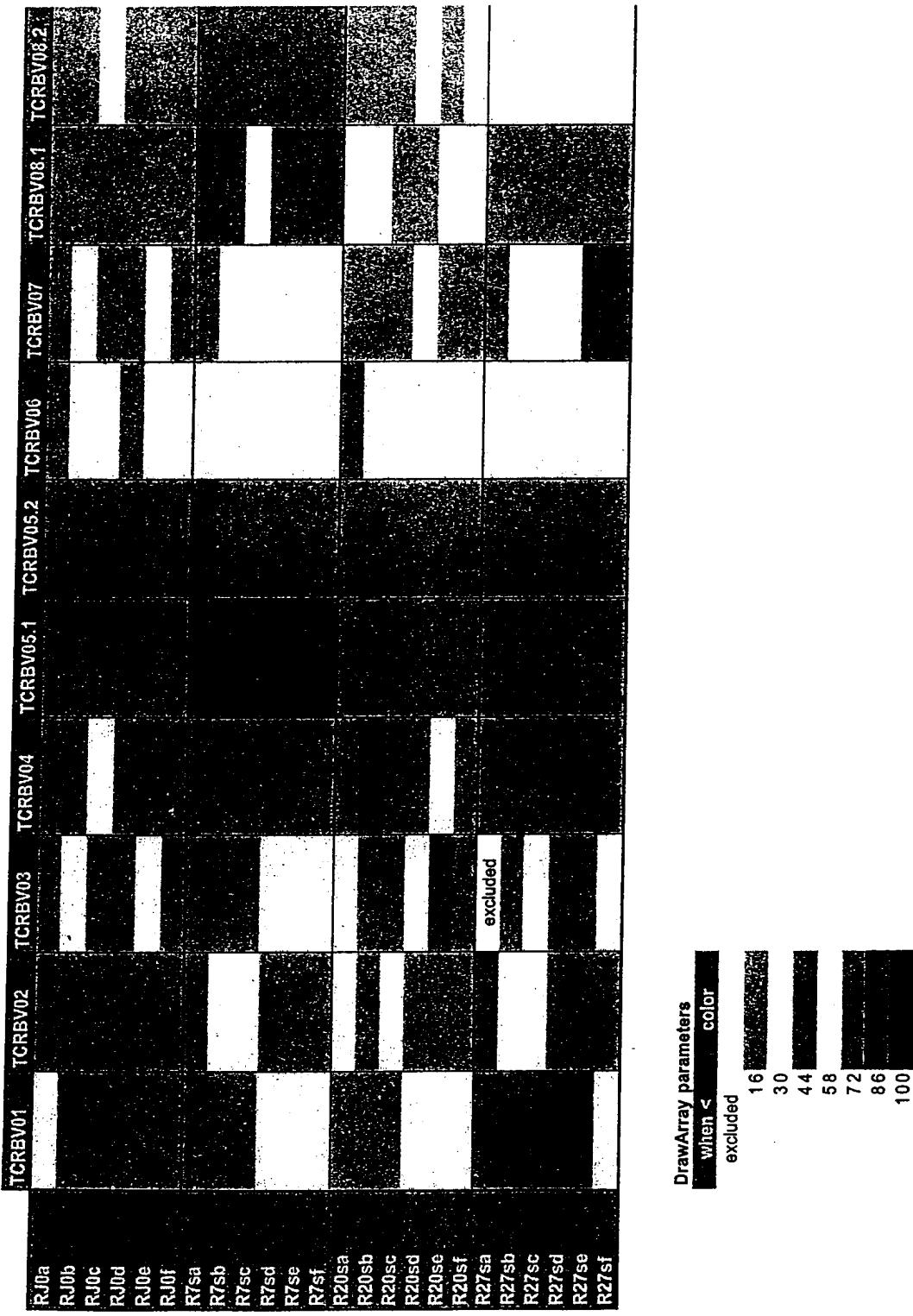


FIG. 38A

OBLON ET AL (703) 413-3000
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REPLACEMENT SHEET(S)
Reply to O.A. DATED NOVEMBER 1, 2007

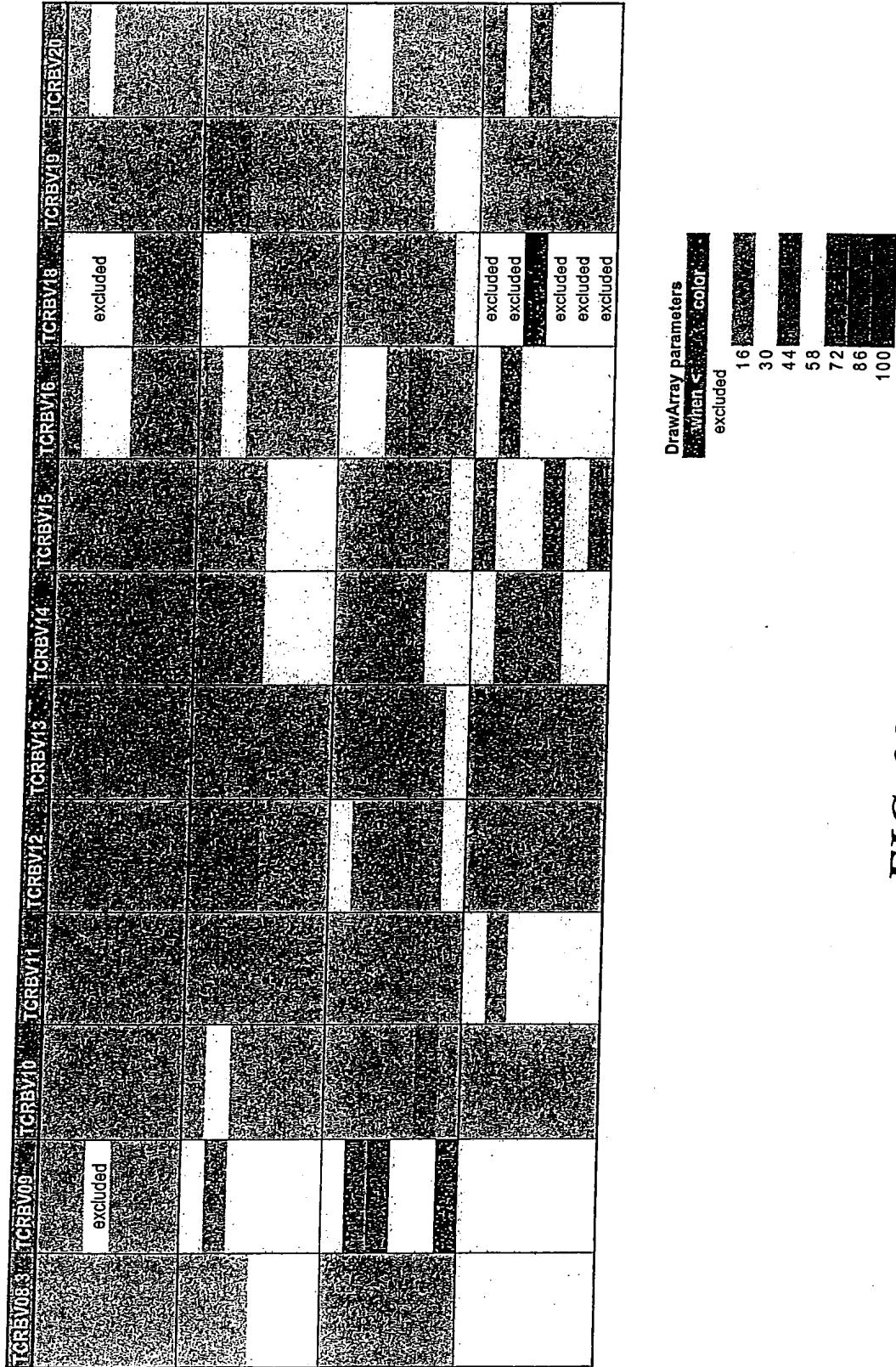


FIG. 38B

Score d'Oligoclonalité β V : PWK/Rate-CD4 $^{+}$	
7 semaines post-infection	27 semaines post-infection
β V01 (9-10-11 aa)	β V5.2 (9 aa)
β V09 (10-11 aa)	β V8.3 (8-9-10 aa)
β V16 (10 aa)	β V09 (7-9-10-12-13 aa)
β V19 (12 aa)	β V10 (9 aa)
	β V11 (9-10-11 aa)

FIG. 39

Score d'Oligoclonalité β V : PWK/GG-CD4 $^{+}$	
7 semaines post-infection	27 semaines post-infection
β V01 (9-10-11 aa)	β V5.2 (8-9 aa)
β V03 (10 aa)	β V10 (9 aa)
β V8.1 (10 aa)	β V14 (10 aa)
β V8.2 (9-10-11 aa)	β V15 (9-10-11 aa)
β V09 (9-10-11 aa)	
β V16 (10 aa)	
β V19 (10-12 aa)	

FIG. 44

Score d'Oligoclonalité β V : PWK/GG-CD8 $^{+}$	
7 semaines post-infection	27 semaines post-infection
β V12 (9-10 aa)	β V03 (10 aa)
β V15 (8-9 aa)	β V04 (11 aa)

FIG. 49

Score d'Oligoclonalité β V : PWK/Rate-CD8 $^{+}$	
7 semaines post-infection	27 semaines post-infection
β V01 (10-11-12 aa)	β V03 (10 aa)
	β V13 (11 aa)

FIG. 54

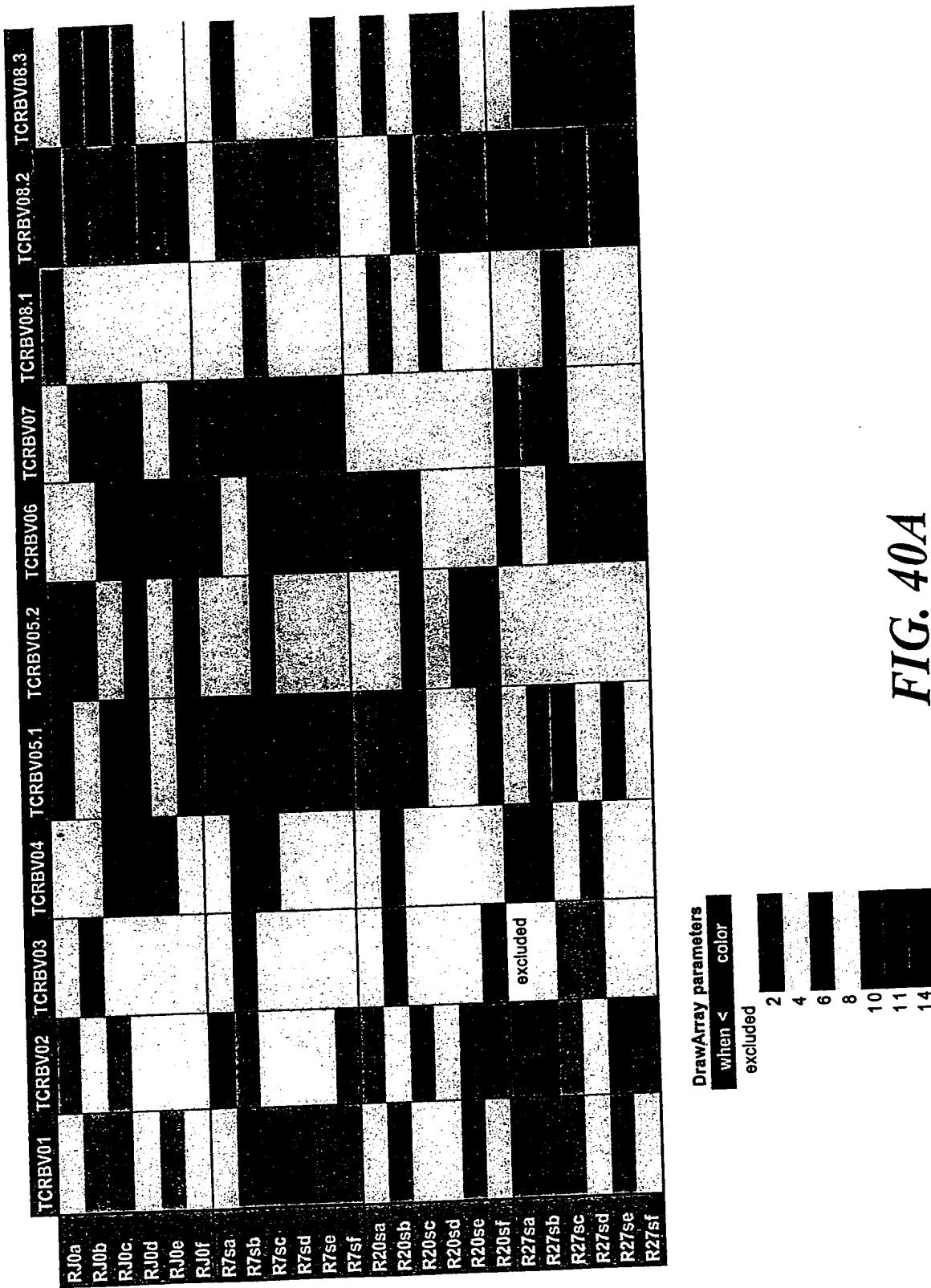


FIG. 40A

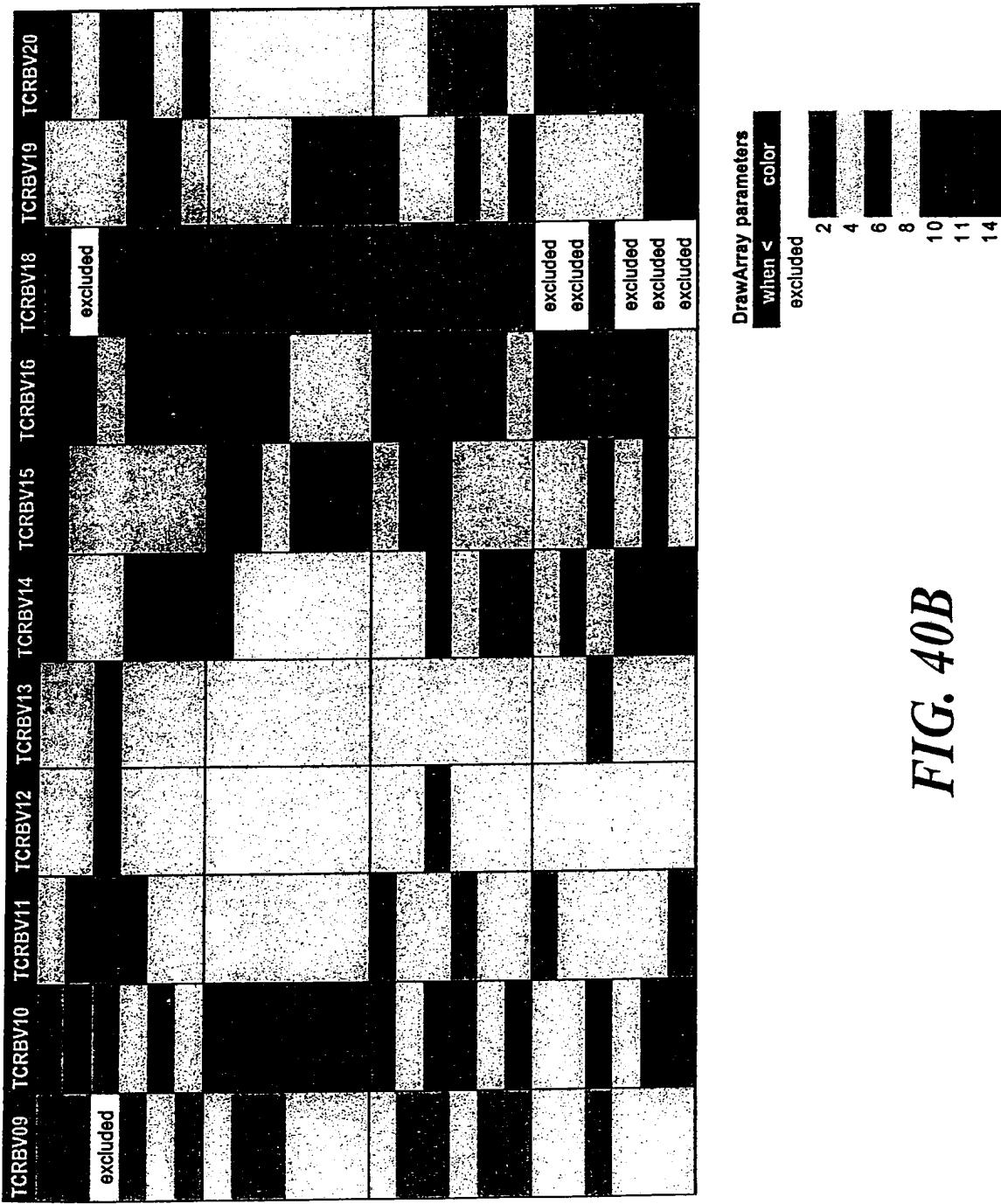


FIG. 40B

Parameters of file to use		DA PWK/GG-CD4+			
	Workbook	Sheet	Group	Nature	Remark
1	DF BB/009	Data.2	1	GGJ0b	1
2	DF BB/009	Data.3	1	GGJ0c	2
3	DF BB/009	Data.1	1	GGJ0a	3
4	DF BB/010	Data.1	1	GGJ0d	4
5	DF BB/010	Data.2	1	GGJ0e	5
6	DF BB/010	Data.3	1	GGJ0f	6
7	DF BB/002	Data.1	2	GG7sa	7
8	DF BB/002	Data.2	2	GG7sb	8
9	DF BB/002	Data.3	2	GG7sc	9
10	DF BB/003	Data.1	2	GG7sd	10
11	DF BB/003	Data.2	2	GG7se	11
12	DF BB/007	Data.3	2	GG7sf	12
13	DF BB/019	Data.1	3	GG20sa	13
14	DF BB/019	Data.2	3	GG20sb	14
15	DF BB/019	Data.3	3	GG20sc	15
16	DF BB/020	Data.1	3	GG20sd	16
17	DF BB/020	Data.2	3	GG20se	17
18	DF BB/020	Data.3	3	GG20sf	18
19	DF BB/027	Data.1	4	GG27sa	19
20	DF BB/027	Data.2	4	GG27sb	20
21	DF BB/027	Data.3	4	GG27sc	21
22	DF BB/028	Data.1	4	GG27sd	22
23	DF BB/028	Data.2	4	GG27se	23
24	DF BB/028	Data.3	4	GG27sf	24

FIG. 41

OBLON ET AL (703) 413-3000
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REPLACEMENT SHEET(S)

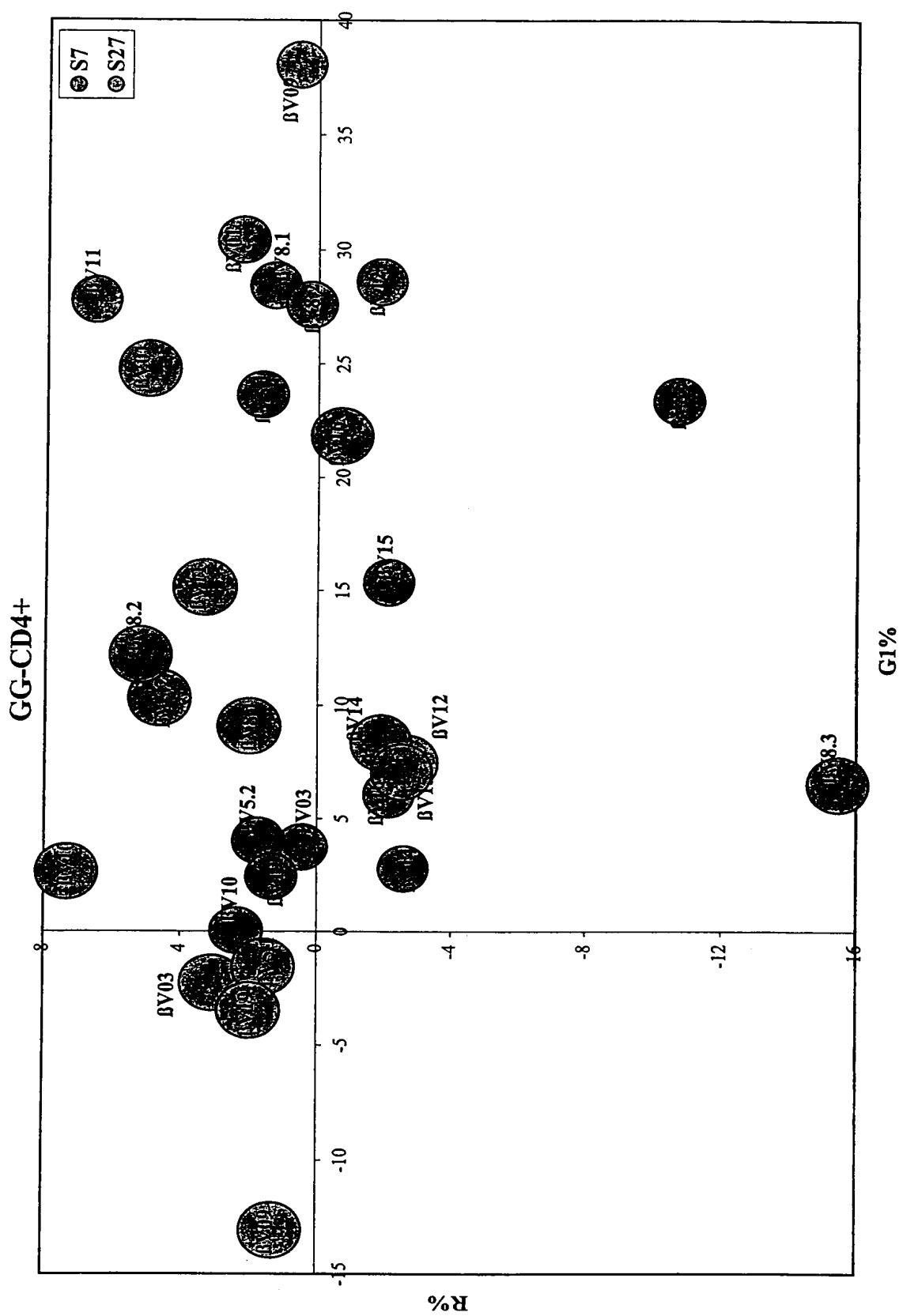


FIG. 42

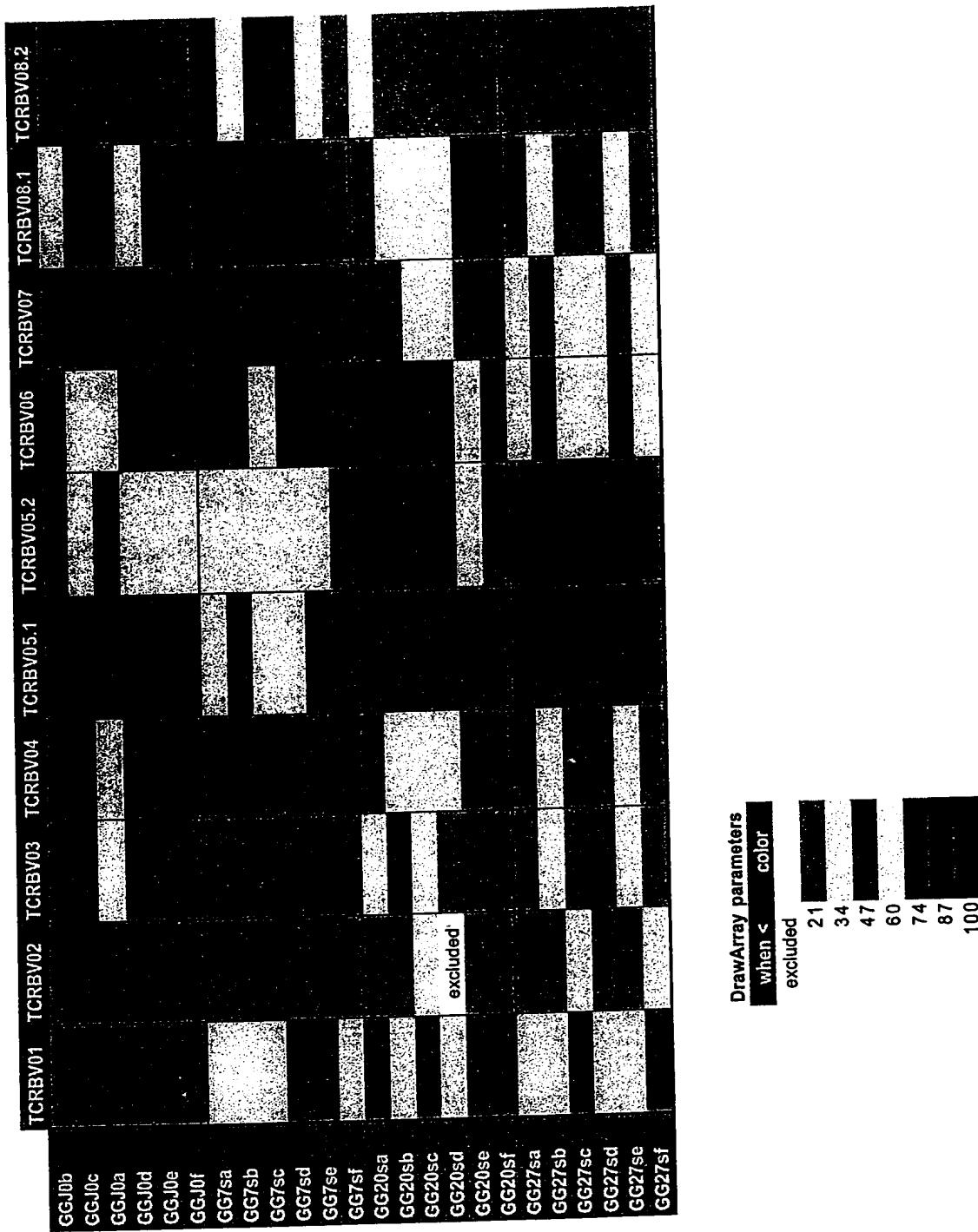
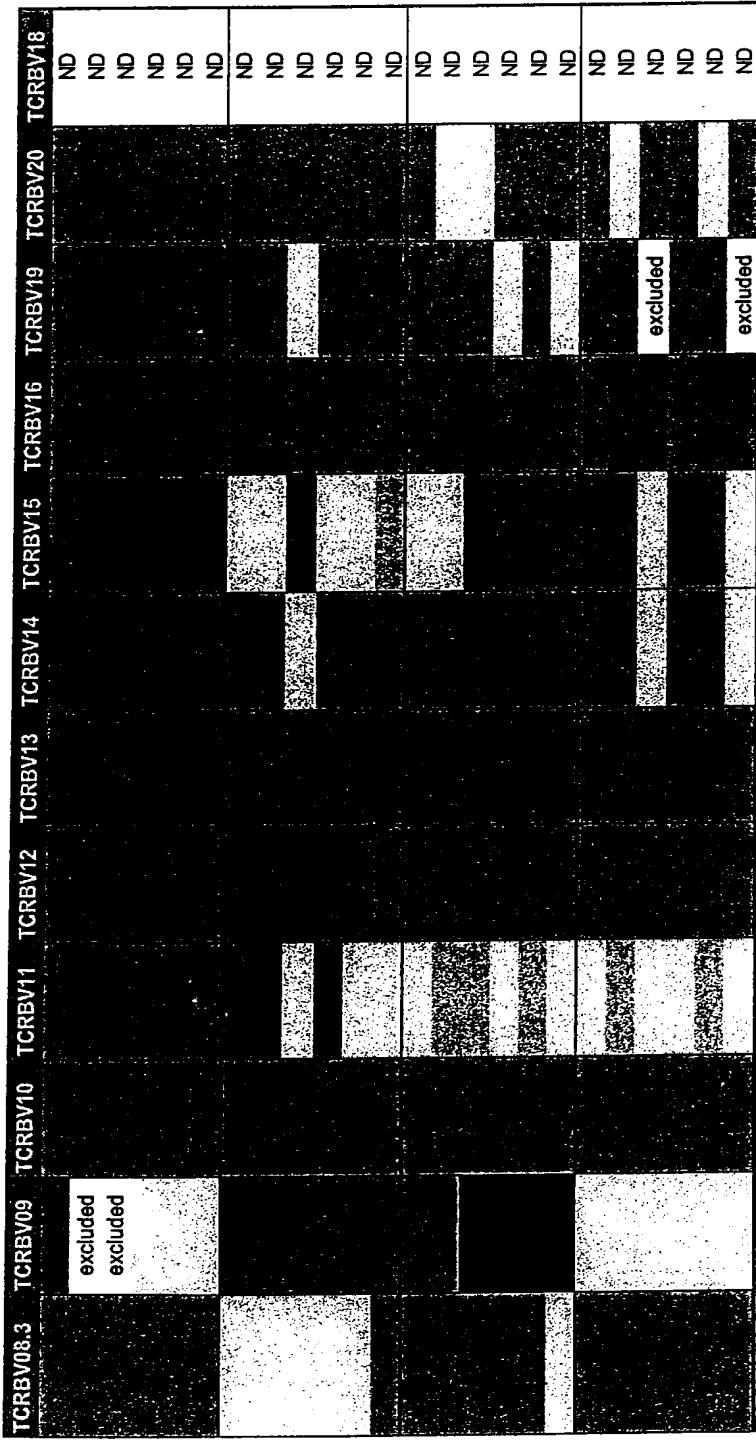


FIG. 43A

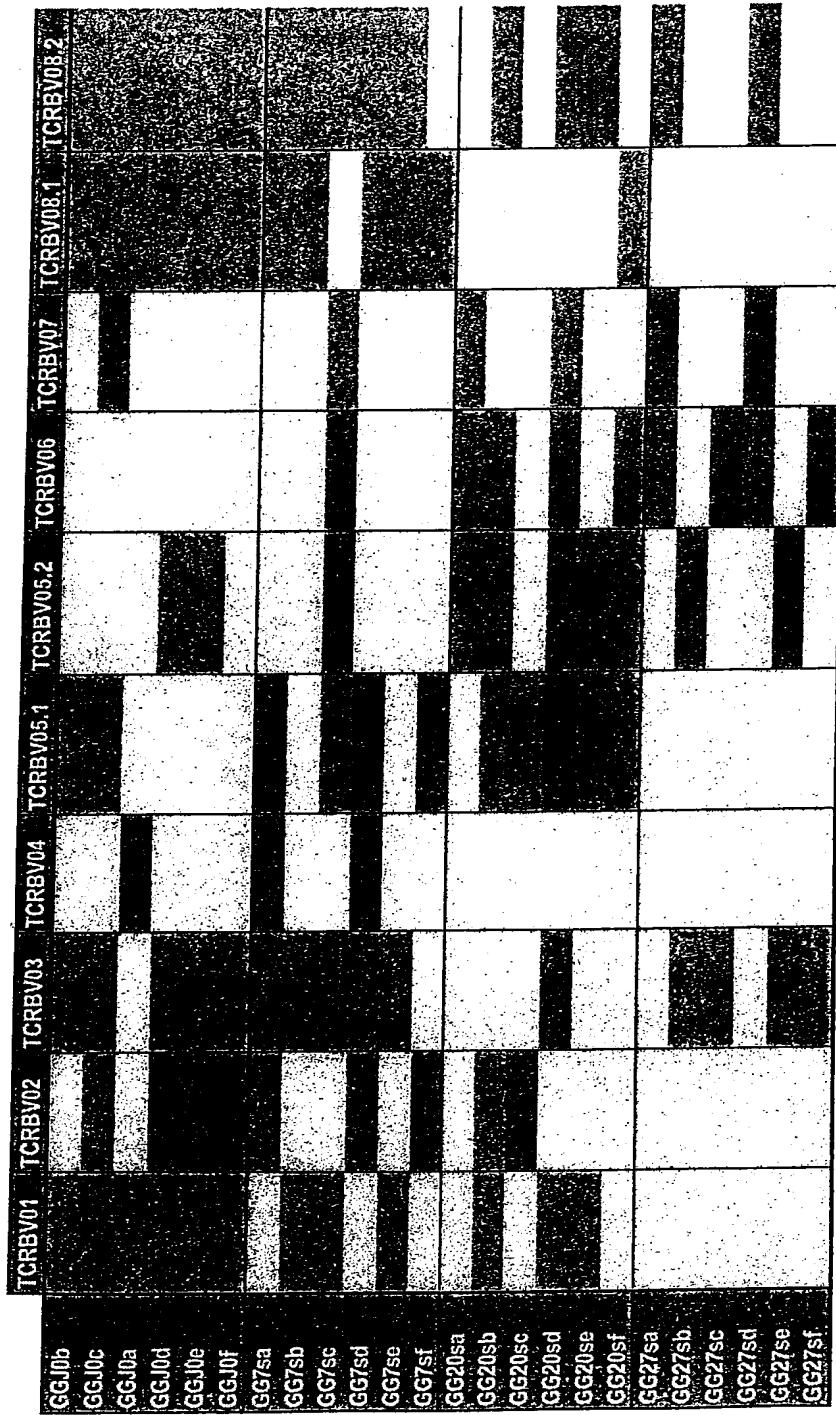
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REPLACEMENT SHEET(S)



DrawArray parameters
when < color
excluded

21	
34	
47	
60	
74	
87	
100	

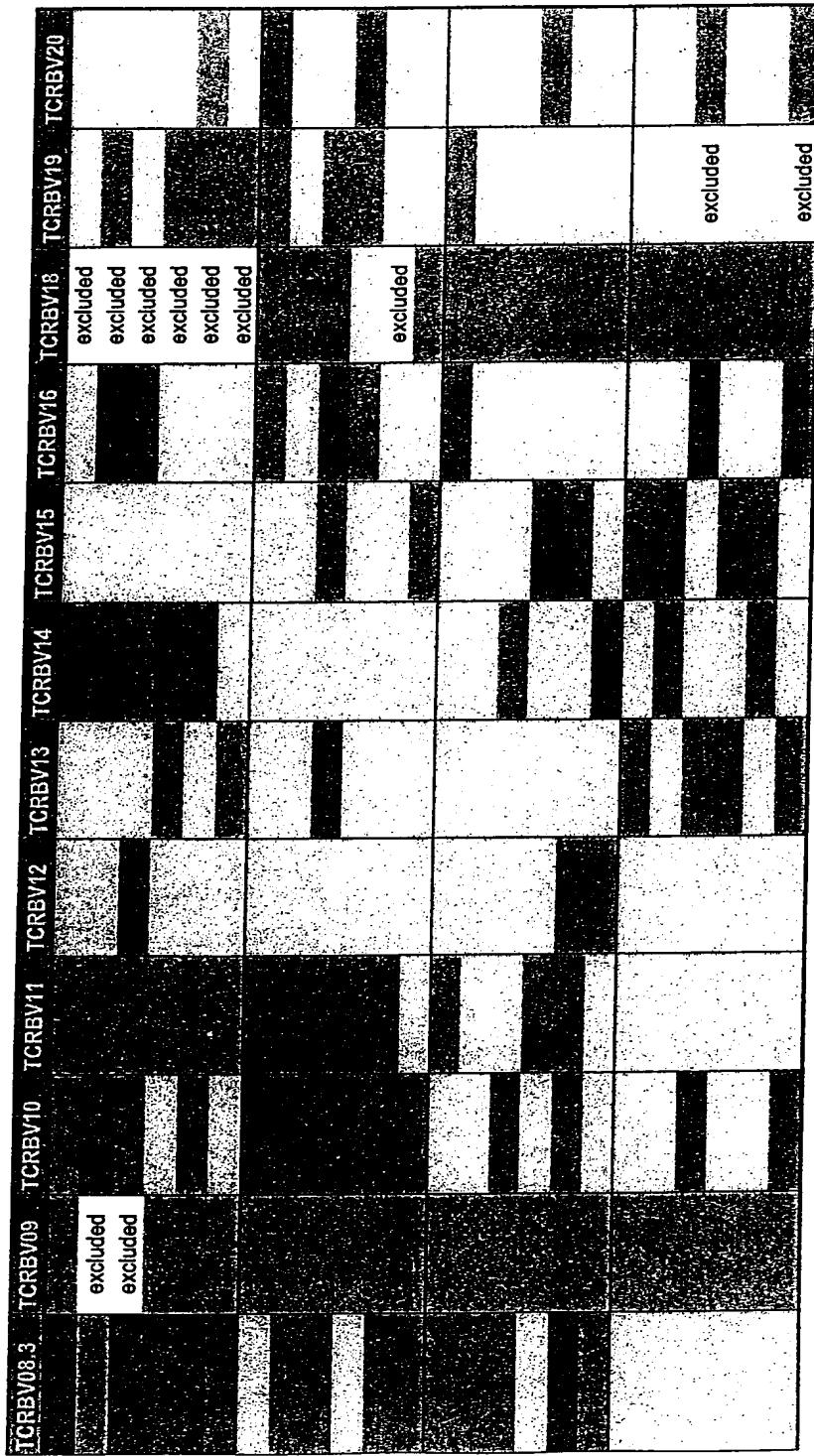
FIG. 43B



DrawArray parameters
 when < color
 excluded



FIG. 45A



DrawArray parameters
when < color
excluded

3
7
10
13
16
20
24

FIG. 45B

Parameters of file to use		DA PWK/GG-CD8+			
	Workbook	Sheet	Group	Nature	Remark
1	DF BB/001	Data.2	2	GG7sb	7
2	DF BB/001	Data.1	2	GG7sa	8
3	DF BB/001	Data.3	2	GG7sc	9
4	DF BB/004	Data.1	2	GG7sd	10
5	DF BB/004	Data.2	2	GG7se	11
6	DF BB/004	Data.3	2	GG7sf	12
7	DF BB/011	Data.1	1	GGJ0a	1
8	DF BB/011	Data.2	1	GGJ0b	2
9	DF BB/011	Data.3	1	GGJ0c	3
10	DF BB/012	Data.1	1	GGJ0d	4
11	DF BB/012	Data.2	1	GGJ0e	5
12	DF BB/012	Data.3	1	GGJ0f	6
13	DF BB/021	Data.1	3	GG20sa	13
14	DF BB/021	Data.2	3	GG20sb	14
15	DF BB/021	Data.3	3	GG20sc	15
16	DF BB/022	Data.1	3	GG20sd	16
17	DF BB/022	Data.2	3	GG20se	17
18	DF BB/022	Data.3	3	GG20sf	18
19	DF BB/029	Data.1	4	GG27sa	19
20	DF BB/029	Data.2	4	GG27sb	20
21	DF BB/029	Data.3	4	GG27sc	21
22	DF BB/030	Data.1	4	GG27sd	22
23	DF BB/030	Data.2	4	GG27se	23
24	DF BB/030	Data.3	4	GG27sf	24

FIG. 46

OBLON ET AL (703) 413-3000
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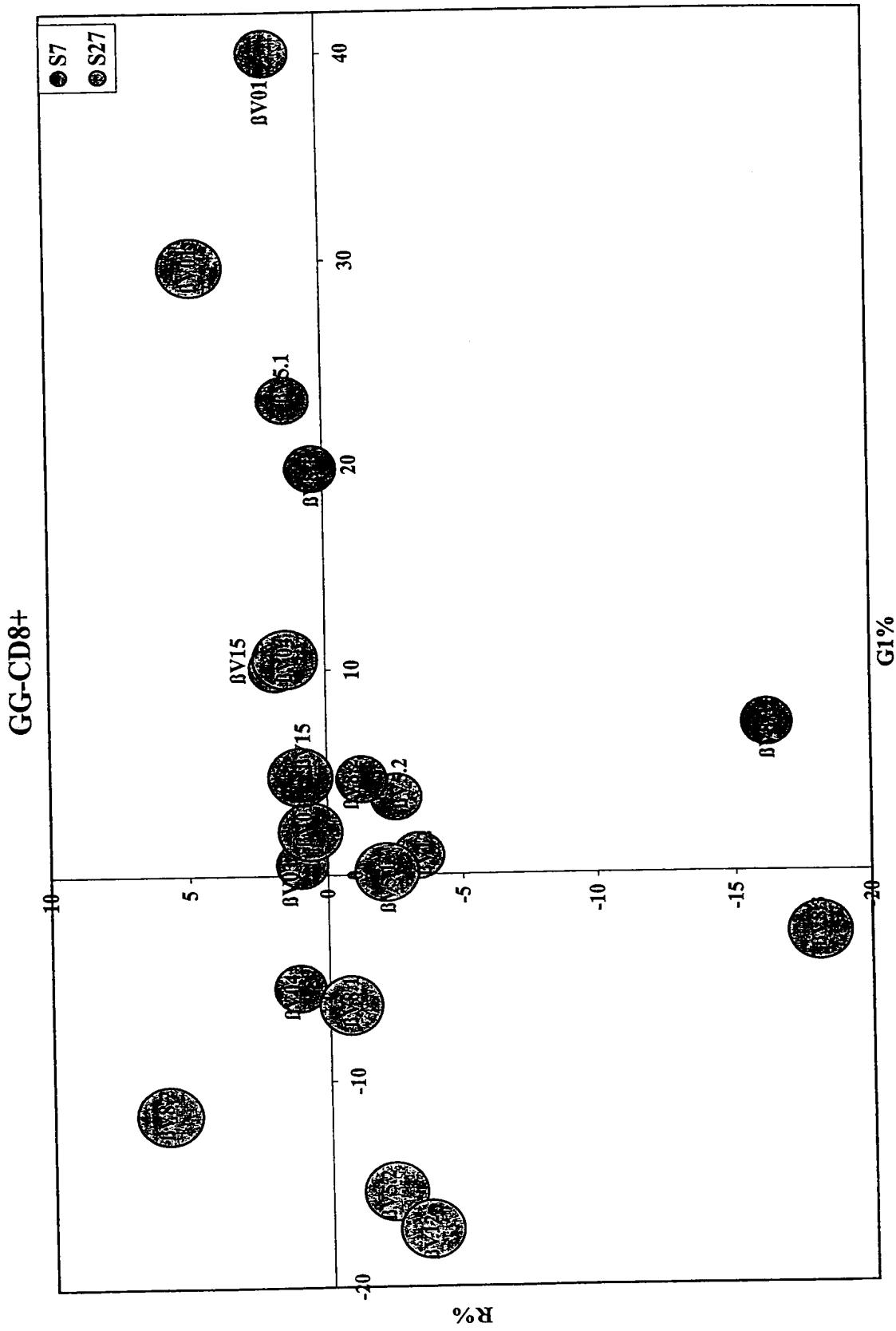


FIG. 47

	TCRBV01	TCRBV02	TCRBV03	TCRBV04	TCRBV05.1	TCRBV05.2	TCRBV06	TCRBV07	TCRBV08.1	TCRBV08.2	TCRBV08.3
GGJ0a											
GGJ0b											
GGJ0c											
GGJ0d											
GGJ0e											
GGJ0f											
GG7sb											
GG7sa											
GG7sc											
GG7sd											
GG7se											
GG7sf											
GG20sa											
GG20sb											
GG20sc											
GG20sd											
GG20se											
GG20sf											
GG27sa											
GG27sb											
GG27sc											
GG27sd											
GG27se											
GG27sf											

DrawArray parameters
 when < color
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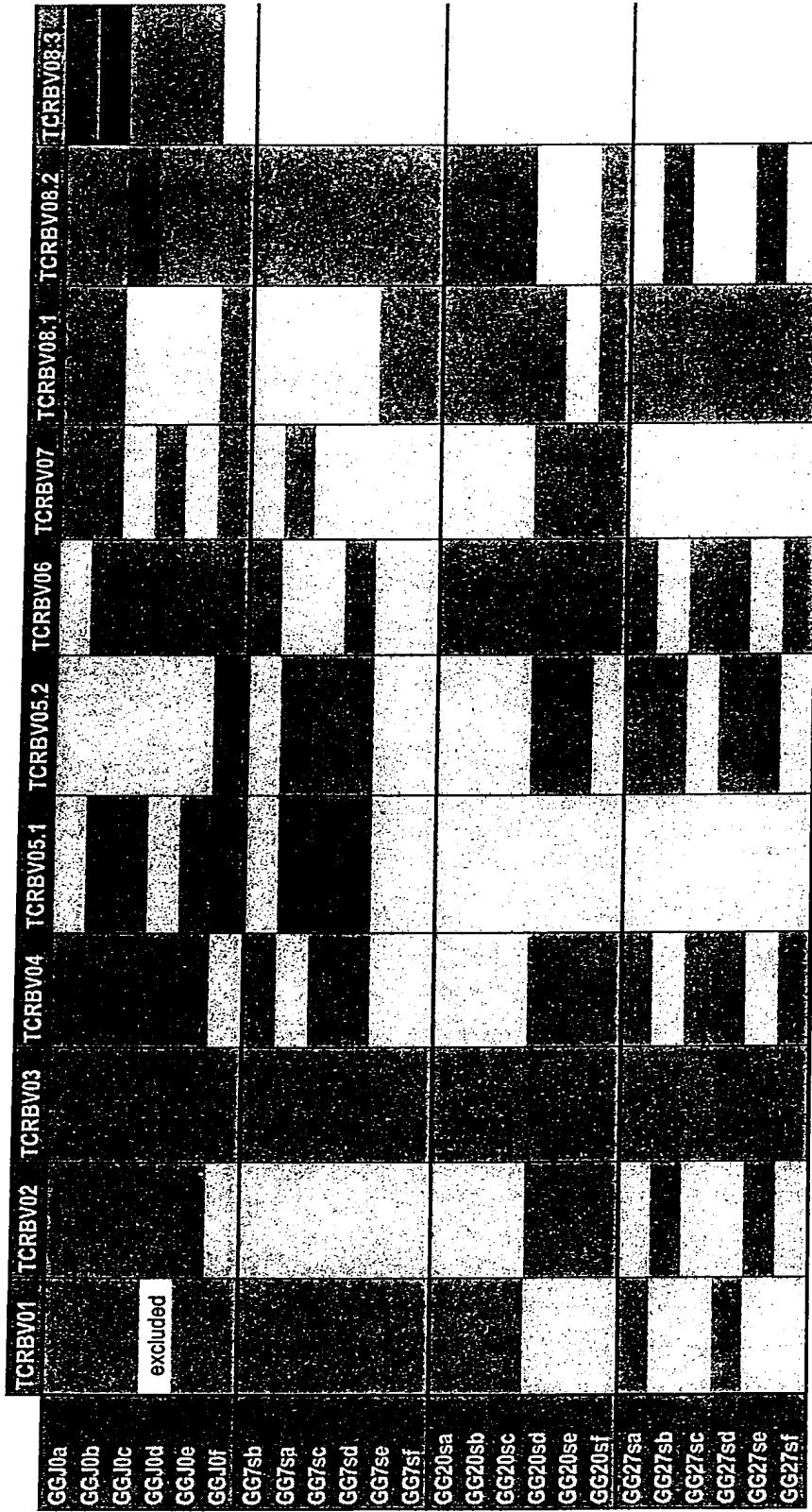
9
17
26
35
43
52
61

FIG. 48A

DrawArray parameters
when < **color**
excluded

9 17 26 35 43 52 61

FIG. 48B



DrawArray parameters
 When < color
 excluded

5	
11	
16	
21	
26	
32	
37	

FIG. 50A

DrawArray parameters

5
11
16
21
26
32
37

FIG. 50B

Parameters of file to use		DA PWK/R-CD8+			
	Workbook	Sheet	Group	Nature	Remark
1	DF BB/017	Data.3	1	RJOa	1
2	DF BB/018	Data.1	1	RJob	2
3	DF BB/015	Data.3	1	RJOC	3
4	DF BB/016	Data.1	1	RJOD	4
5	DF BB/016	Data.2	1	RJOe	5
6	DF BB/016	Data.3	1	RJOf	6
7	DF BB/007	Data.1	2	R7sa	7
8	DF BB/007	Data.2	2	R7sb	8
9	DF BB/008	Data.1	2	R7sc	9
10	DF BB/008	Data.2	2	R7sd	10
11	DF BB/008	Data.3	2	R7se	11
12	DF BB/018	Data.2	2	R7sf	12
13	DF BB/025	Data.1	3	R20sa	13
14	DF BB/025	Data.2	3	R20sb	14
15	DF BB/025	Data.3	3	R20sc	15
16	DF BB/026	Data.1	3	R20sd	16
17	DF BB/026	Data.2	3	R20se	17
18	DF BB/026	Data.3	3	R20sf	18
19	DF BB/033	Data.1	4	R27sa	19
20	DF BB/033	Data.2	4	R27sb	20
21	DF BB/033	Data.3	4	R27sc	21
22	DF BB/034	Data.1	4	R27sd	22
23	DF BB/034	Data.2	4	R27se	23
24	DF BB/034	Data.3	4	R27sf	24

FIG. 51

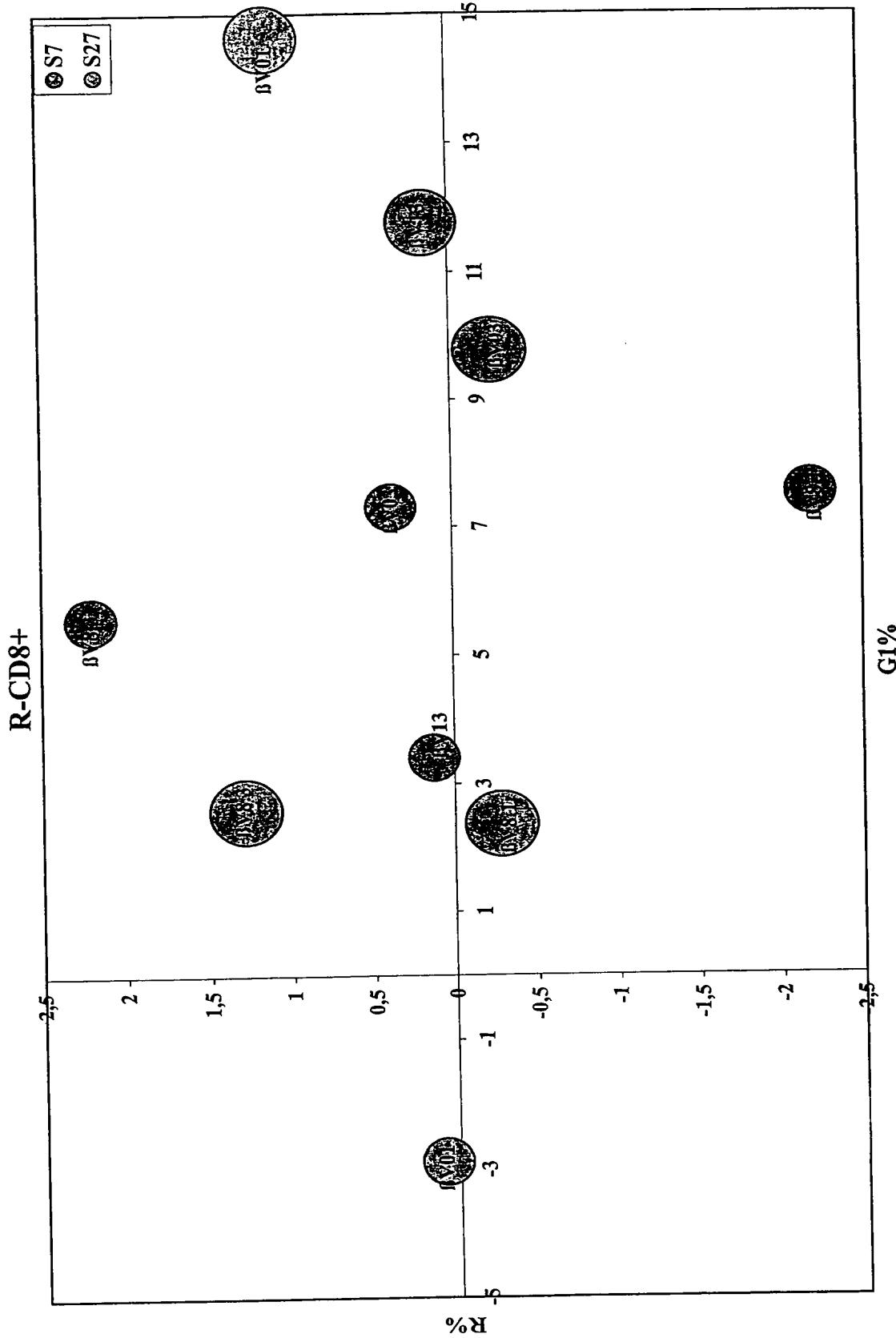
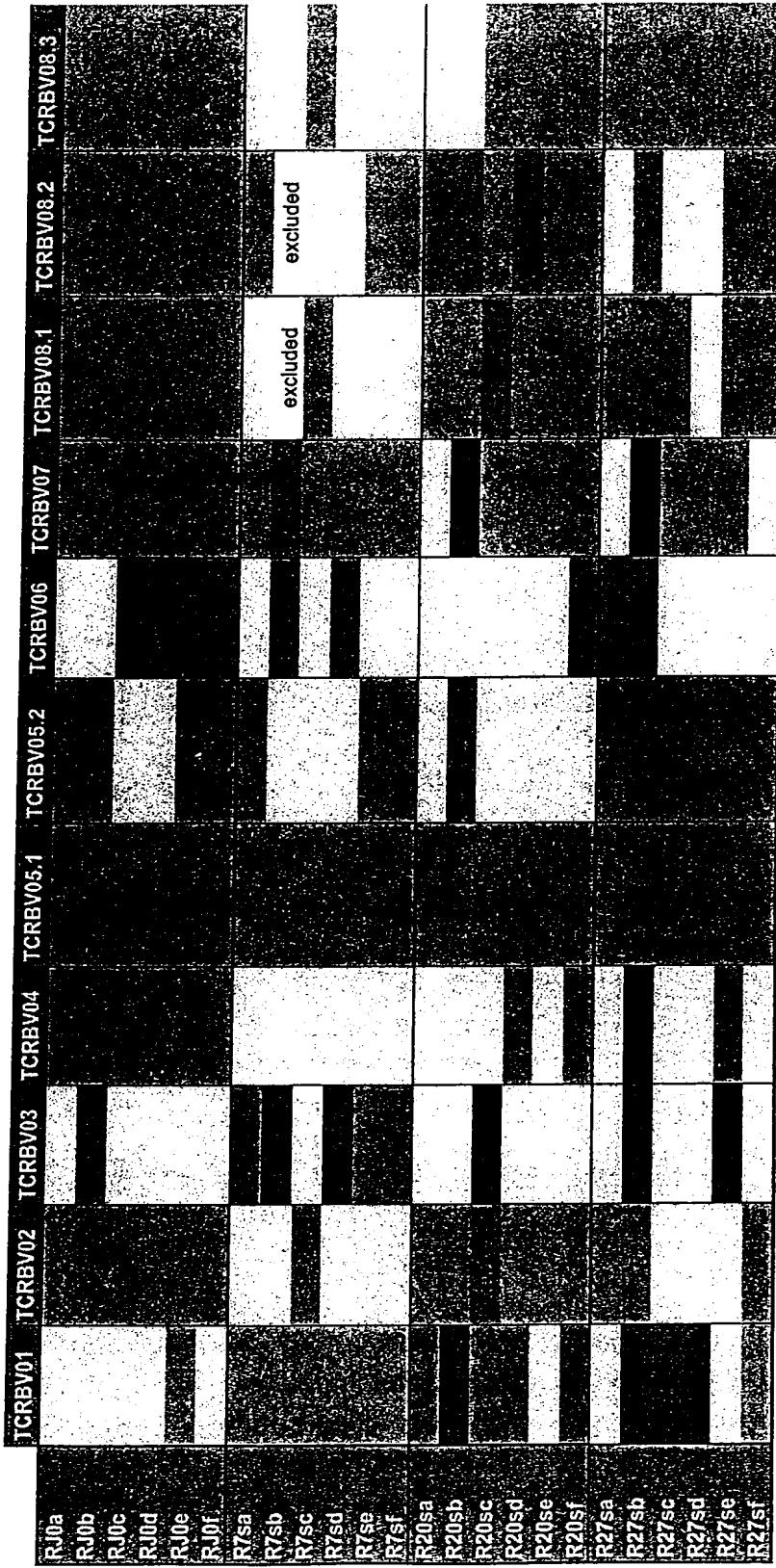


FIG. 52



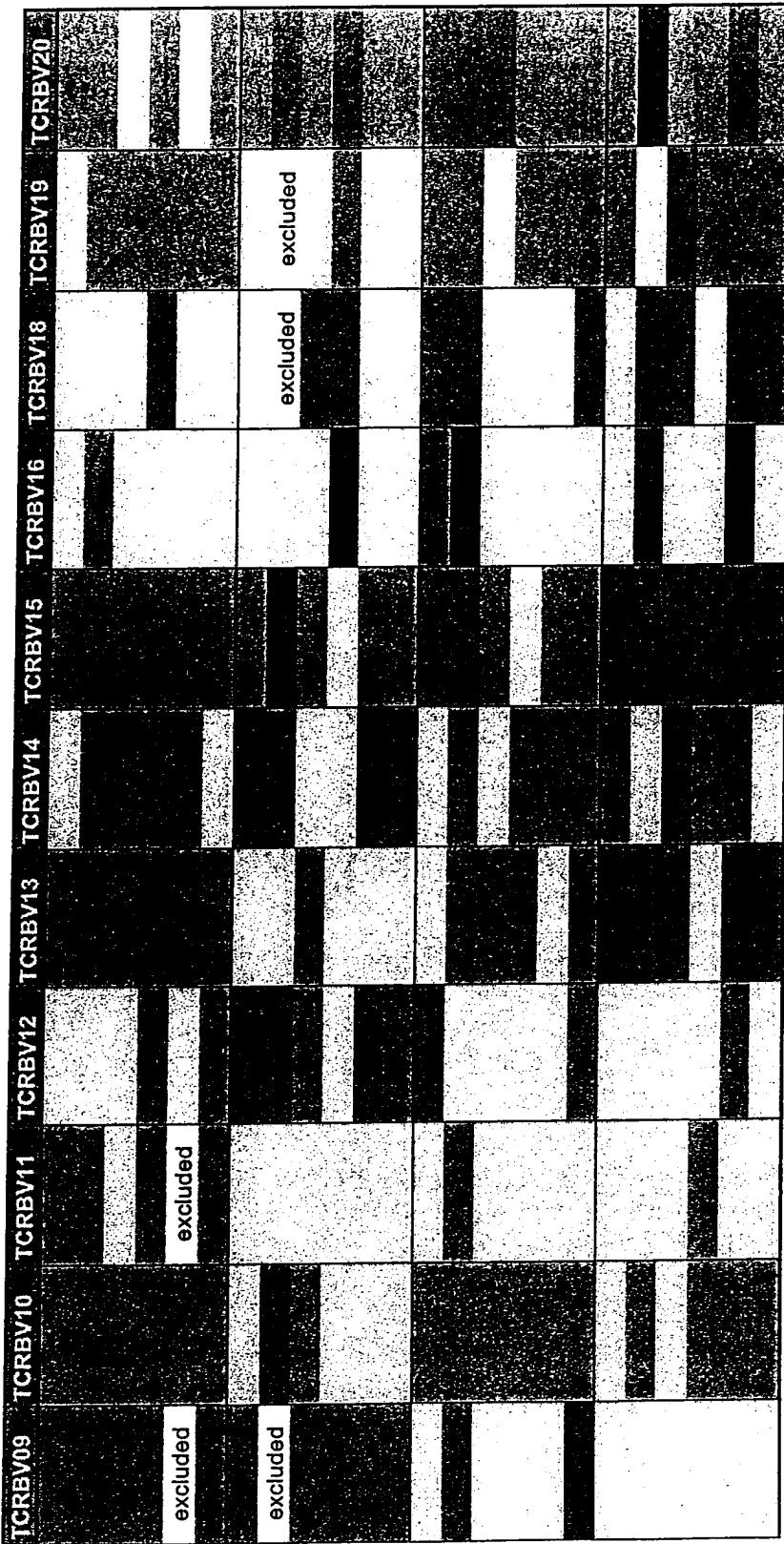
DrawArray parameters
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7	
13	
20	
26	
32	
38	
44	

FIG. 53A

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950

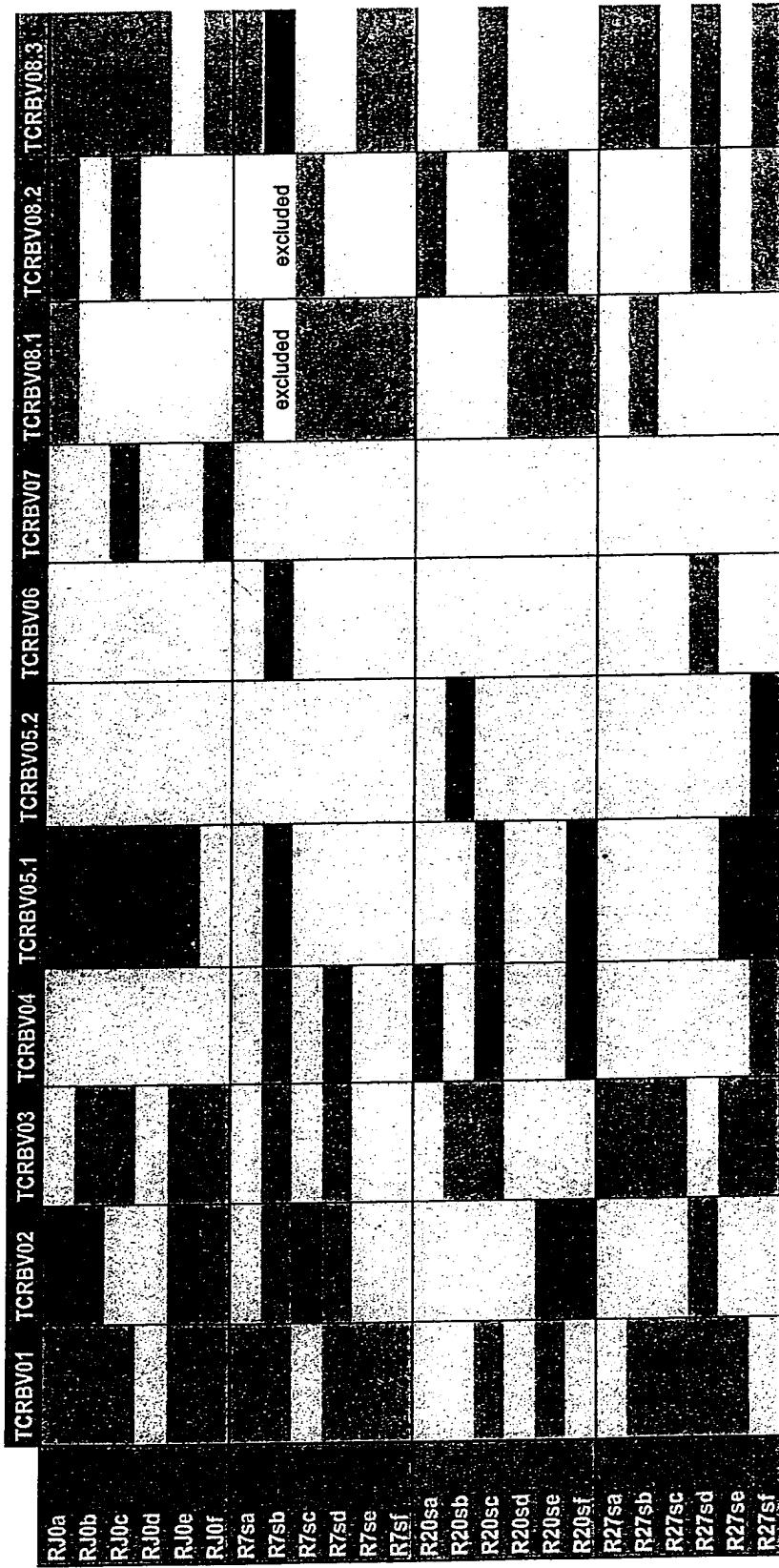
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DrawArray parameters

7
13
20
26
32
38
44

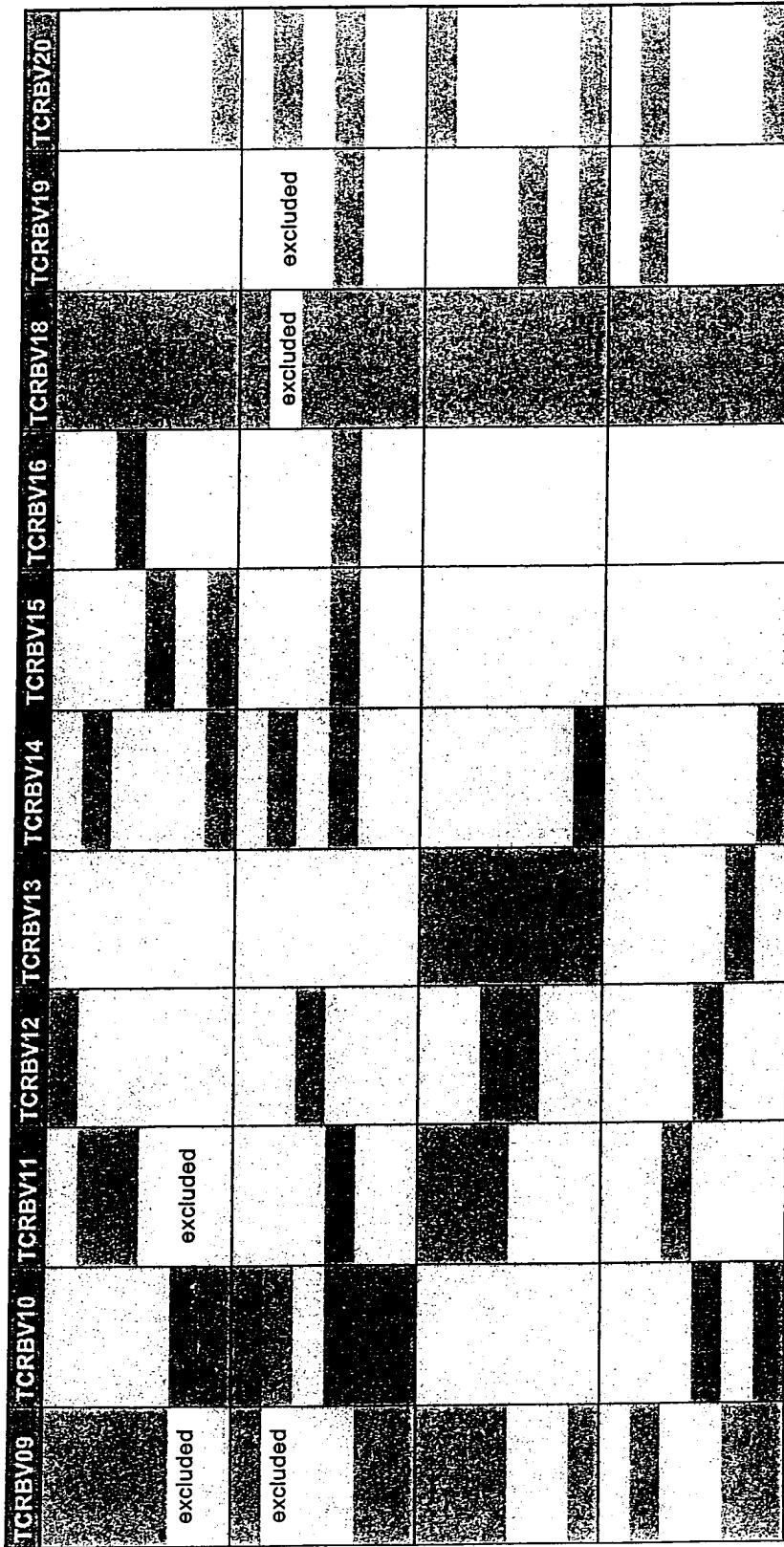
FIG. 53B



DrawArray parameters
 ■ when <
 ■ excluded
 ■ color

3	■
7	■
10	■
13	■
17	■
20	■
24	■

FIG. 55A



DrawArray parameters
when < color
excluded

3
7
10
13
17
20
24

FIG. 55B

Parameters of file to use

	Workbook	Sheet	Group	Nature	Remarks
1	EF/043 DF	Data.2	1	TN01 spleen	
2	EF/022 DF	Data.1	1	TN02 spleen	
3	EF/018 DF	Data.1	1	TN03 spleen	
4	EF/038 DF	Data.3	1	TN04 spleen	
5	EF/039 DF	Data.1	2	J3-01 spleen	
6	EF/016 DF	Data.1	2	J3-02 spleen	
7	EF/034 DF	Data.1	2	J3-03 spleen	
8	EF/046 DF	Data.2	2	J3-04 spleen	
9	EF/023 DF	Data.2	2	J3-05 spleen	
10	EF/029 DF	Data.3	3	J4-01 spleen	
11	EF/026 DF	Data.1	3	J4-02 spleen	
12	EF/029 DF	Data.1	3	J4-03 spleen	
13	EF/036 DF	Data.2	3	J4-04 spleen	
14	EF/019 DF	Data.2	3	J4-06 spleen	
15	EF/038 DF	Data.1	3	J4-07 spleen	
16	EF/045 DF	Data.1	3	J4-08 spleen	
17	EF/042 DF	Data.3	3	J4-09 spleen	
18	EF/042 DF	Data.1	3	J4-10 spleen	
19	EF/016 DF	Data.3	4	J5-01 spleen	
20	EF/026 DF	Data.3	4	J5-02 spleen	
21	EF/031 DF	Data.1	4	J5-03 spleen	
22	EF/021 DF	Data.1	4	J5-04 spleen	
23	EF/021 DF	Data.3	4	J5-05 spleen	
24	EF/028 DF	Data.2	4	J5-06 spleen	
25	EF/043 DF	Data.3	4	J5-07 spleen	
26	EF/041 DF	Data.2	4	J5-08 spleen	
27	EF/012 DF	Data.3	4	J5-09 spleen	
28	EF/046 DF	Data.3	4	J5-10 spleen	
29	EF/024 DF	Data.1	5	J6-01 spleen	
30	EF/017 DF	Data.1	5	J6-02 spleen	
31	EF/025 DF	Data.1	5	J6-03 spleen	
32	EF/040 DF	Data.1	5	J6-04 spleen	
33	EF/014 DF	Data.2	5	J6-05 spleen	
34	EF/020 DF	Data.1	5	J6-06 spleen	
35	EF/033 DF	Data.1	5	J6-07 spleen	
36	EF/030 DF	Data.1	5	J6-08 spleen	
37	EF/013 DF	Data.2	5	J6-09 spleen	
38	EF/027 DF	Data.1	5	J6-10 spleen	
39	EF/031 DF	Data.3	6	TSP01 CM+spleen	
40	EF/032 DF	Data.1	6	TSP06 CM+spleen	
41	EF/034 DF	Data.3	6	TSP09 CM+spleen	
42	EF/010 DF	Data.2	6	TSP10 CM+++ spleen	
43	EF/044 DF	Data.1	6	TSP18 CM+++ spleen	
44	EF/037 DF	Data.1	6	TSP19 CM+++ spleen	
45	EF/011 DF	Data.2	6	TSP20 CM+++ spleen	

FIG. 56A

46	EF/022 DF	Data.2	7	TN02 PBL
47	EF/018 DF	Data.2	7	TN03 PBL
48	EF/039 DF	Data.2	8	J3-01 PBL
49	EF/016 DF	Data.2	8	J3-02 PBL
50	EF/034 DF	Data.2	8	J3-03 PBL
51	EF/039 DF	Data.3	8	J3-04 PBL
52	EF/023 DF	Data.3	8	J3-05 PBL
53	EF/031 DF	Data.2	9	J4-01 PBL
54	EF/026 DF	Data.2	9	J4-02 PBL
55	EF/029 DF	Data.2	9	J4-03 PBL
56	EF/036 DF	Data.3	9	J4-04 PBL
57	EF/012 DF	Data.1	9	J4-05 PBL
58	EF/019 DF	Data.3	9	J4-06 PBL
59	EF/038 DF	Data.2	9	J4-07 PBL
60	EF/045 DF	Data.2	9	J4-08 PBL
61	EF/043 DF	Data.1	9	J4-09 PBL
62	EF/042 DF	Data.2	9	J4-10 PBL
63	EF/019 DF	Data.1	10	J5-01 PBL
64	EF/028 DF	Data.1	10	J5-02 PBL
65	EF/035 DF	Data.1	10	J5-03 PBL
66	EF/021 DF	Data.2	10	J5-04 PBL
67	EF/023 DF	Data.1	10	J5-05 PBL
68	EF/028 DF	Data.3	10	J5-06 PBL
69	EF/041 DF	Data.3	10	J5-08 PBL
70	EF/012 DF	Data.2	10	J5-09 PBL
71	EF/041 DF	Data.1	10	J5-10 PBL
72	EF/024 DF	Data.2	11	J6-01 PBL
73	EF/017 DF	Data.2	11	J6-02 PBL
74	EF/025 DF	Data.2	11	J6-03 PBL
75	EF/040 DF	Data.2	11	J6-04 PBL
76	EF/014 DF	Data.1	11	J6-05 PBL
77	EF/020 DF	Data.2	11	J6-06 PBL
78	EF/033 DF	Data.2	11	J6-07 PBL
79	EF/030 DF	Data.2	11	J6-08 PBL
80	EF/013 DF	Data.1	11	J6-09 PBL
81	EF/027 DF	Data.2	11	J6-10 PBL
82	EF/032 DF	Data.2	12	TSP06 CM+PBL
83	EF/035 DF	Data.3	12	TSP09 CM+PBL
84	EF/010 DF	Data.1	12	TSP10 CM+++ PBL
85	EF/044 DF	Data.2	12	TSP18 CM+++ PBL
86	EF/037 DF	Data.2	12	TSP19 CM+++ PBL
87	EF/011 DF	Data.1	12	TSP20 CM+++ PBL

FIG.56B

B10D2 mice
Plasmodium berghei infection of B10D2 mice

Genotype	Draw Array	TCRBV01	TCRBV02	TCRBV03	TCRBV04	TCRBV05.1	TCRBV05.2	TCRBV06	TCRBV07	TCRBV08.1	TCRBV08.2	TCRBV08.3	TCRBV09
TN01 spleen													
TN02 spleen													
TN03 spleen													
TN04 spleen													
J3-01 spleen													
J3-02 spleen													
J3-03 spleen													
J3-04 spleen													
J3-05 spleen													
J4-01 spleen													
J4-02 spleen													
J4-03 spleen													
J4-04 spleen													
J4-06 spleen													
J4-07 spleen													
J4-08 spleen													
J4-09 spleen													
J4-10 spleen													
J5-01 spleen													
J5-02 spleen													
J5-03 spleen													
J5-04 spleen													
J5-05 spleen													
J5-06 spleen													
J5-07 spleen													
J5-08 spleen													
J5-09 spleen													
J5-10 spleen													
J6-01 spleen													
J6-02 spleen													
J6-03 spleen													
J6-04 spleen													
J6-05 spleen													
J6-06 spleen													
J6-07 spleen													
J6-08 spleen													
J6-09 spleen													
J6-10 spleen													
TSP01 CM+spleen													
TSP06 CM+spleen													
TSP09 CM+spleen													
TSP10 CM++ spleen													
TSP18 CM++ spleen													
TSP19 CM++ spleen													
TSP20 CM++ spleen													

FIG. 57A

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.

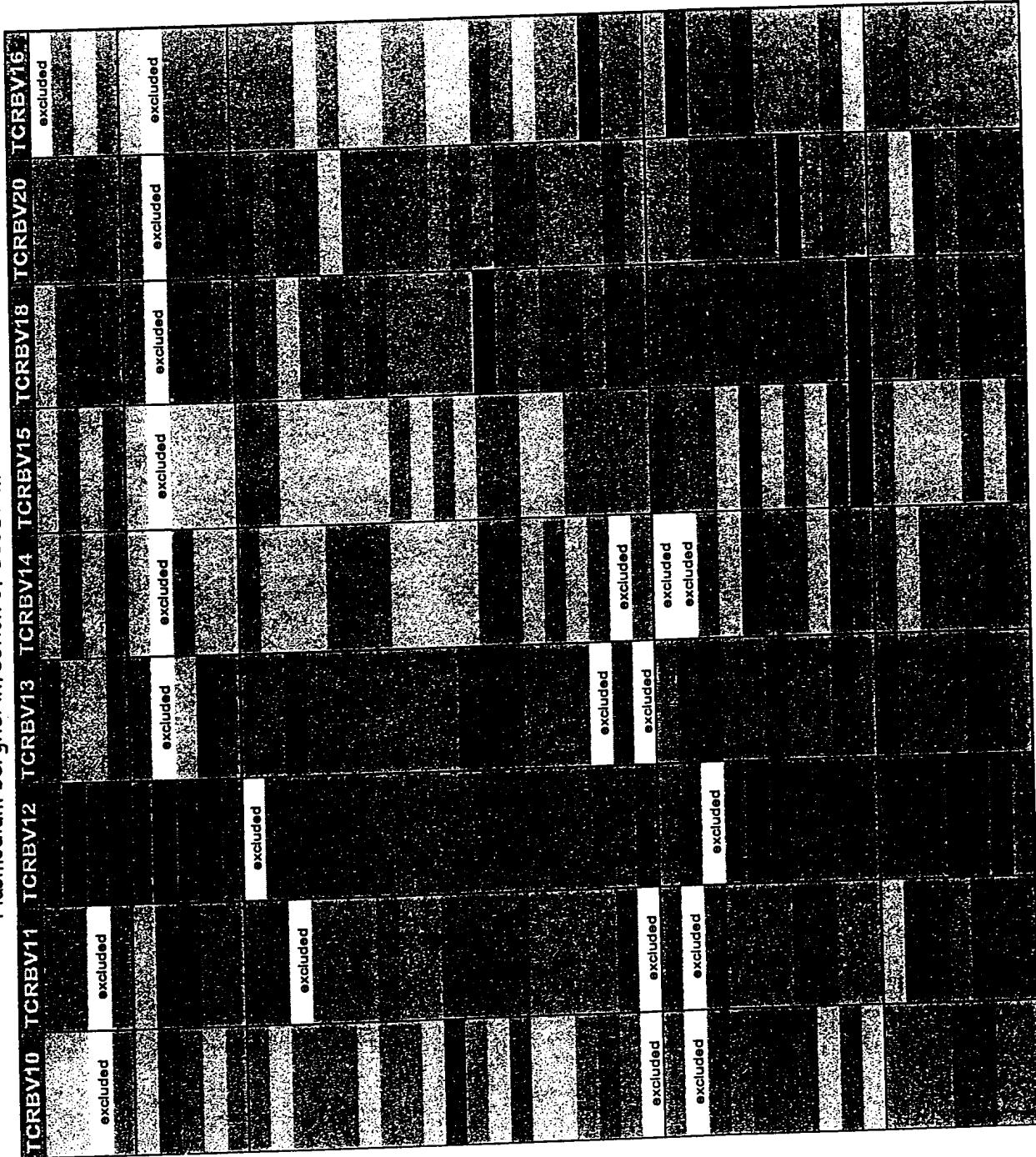
REPLACEMENT SHEET(S)
REPLY TO O.A. DATED NOVEMBER 1, 2007
SHEET 1 OF 312,320

Plasmid infection of B10D2 mice

FIG. 57B

FIG. 57C

PA_{EFP/R}final plasmid infection of B10D2 mice



β EFP/R^{final} Plasmodium berghei infection of B10D2 mice

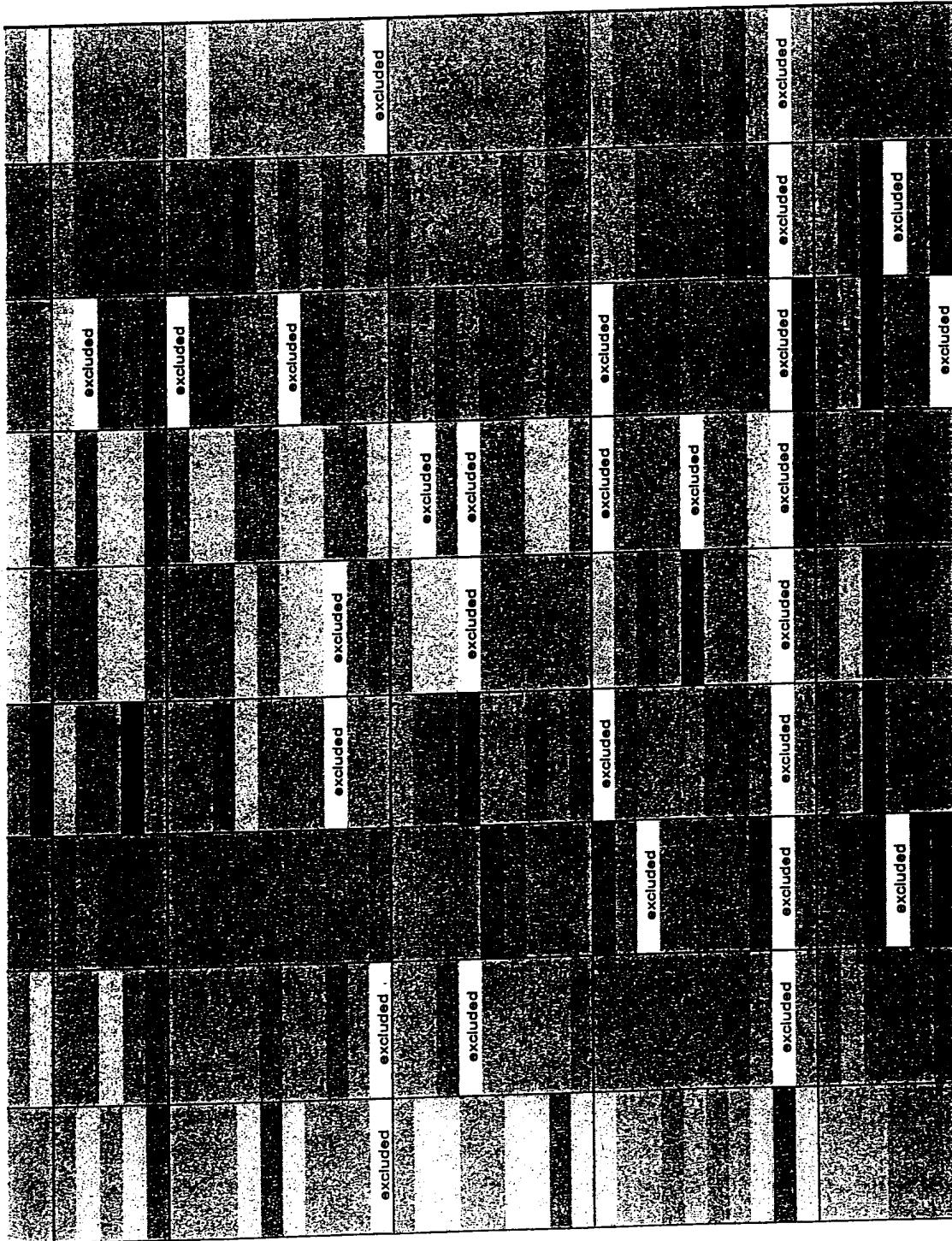


FIG. 57D

FIG. 58A

Plasmodium berghei infection of B10D2 mice

FIG. 58B

Plasmodium benghei infection of B10D2 mice

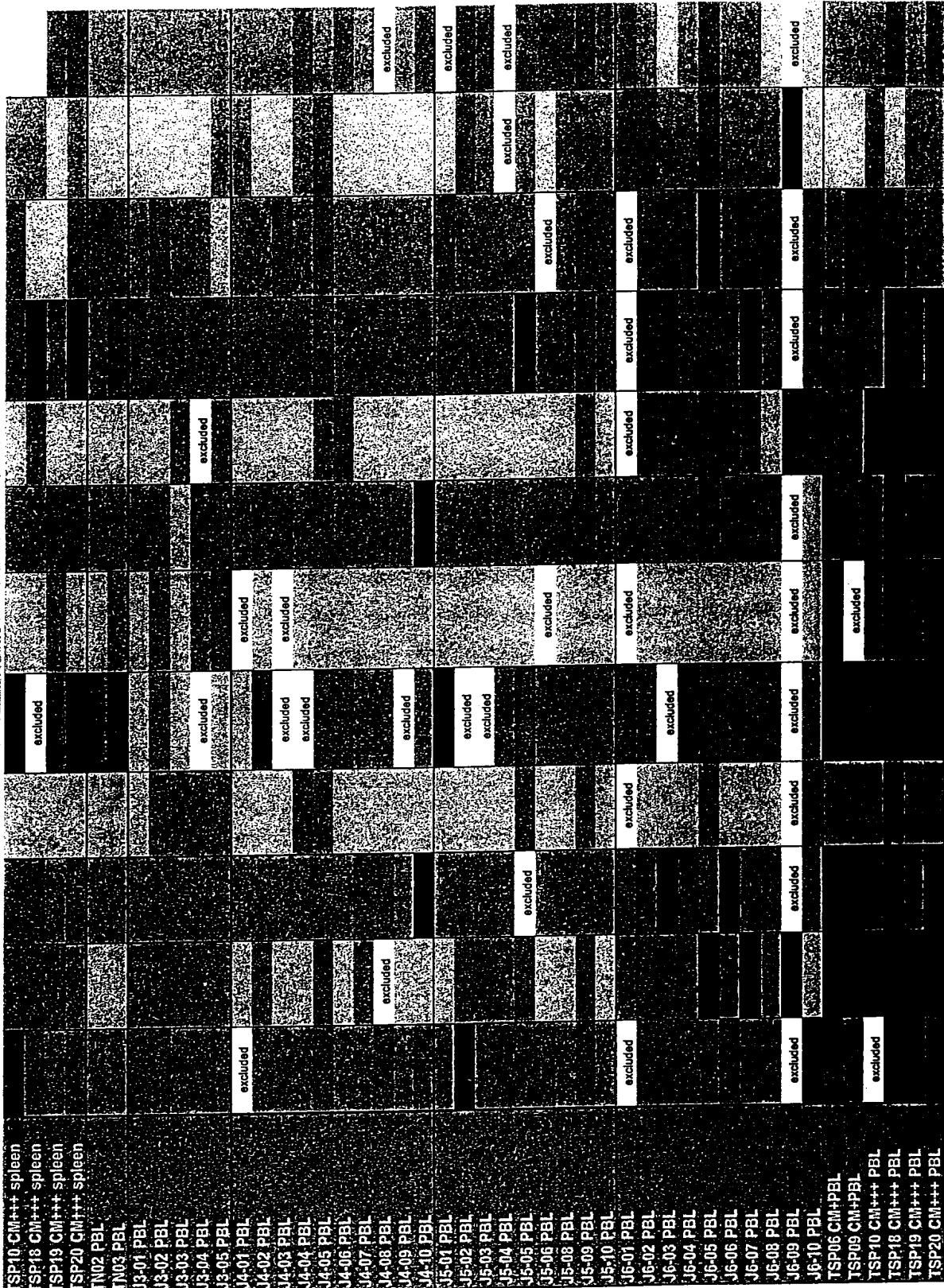
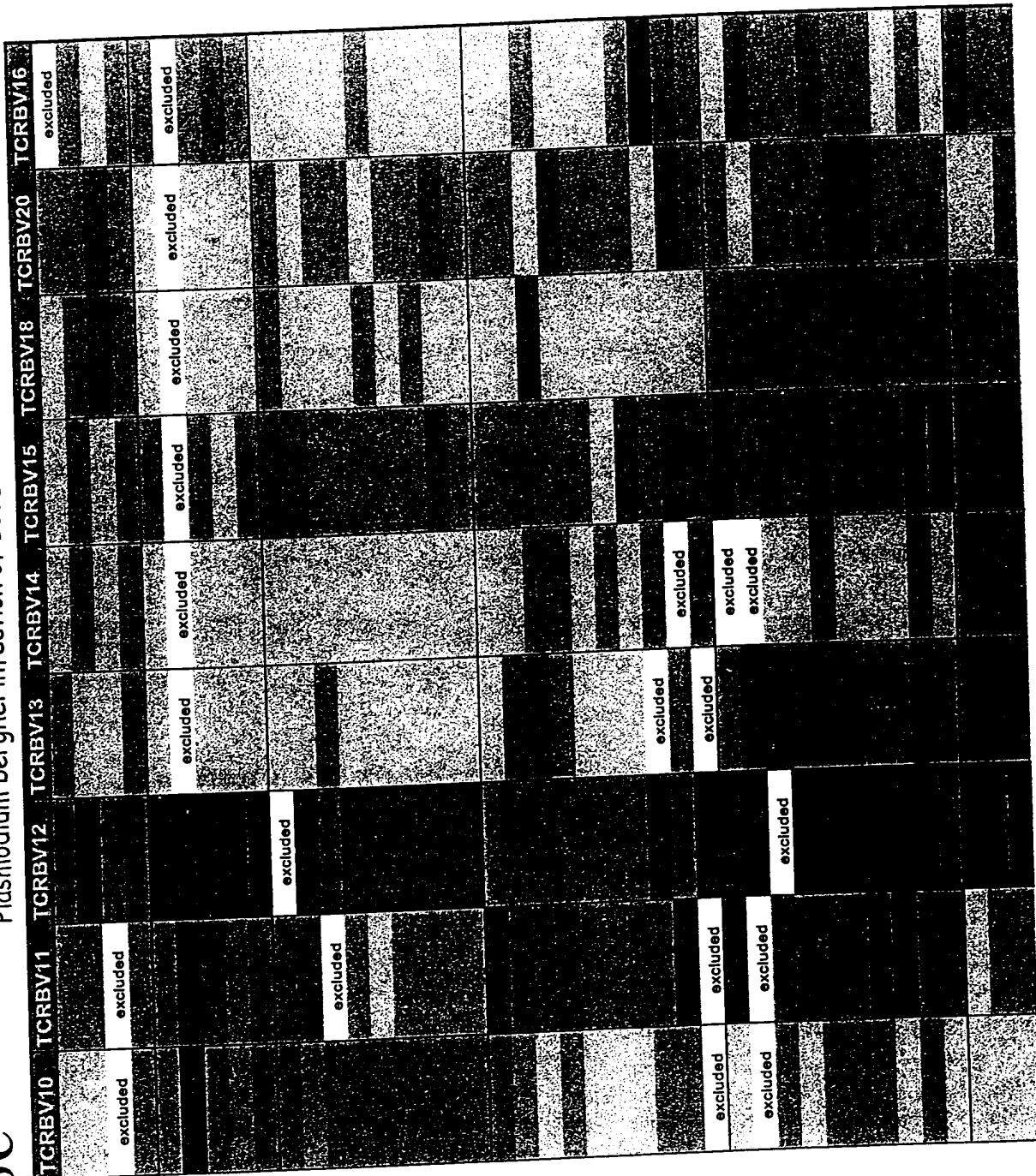


FIG. 58C

Plasmodium berghei infection of B10D2 mice



DBLON ET AL (703) 413-3000
DOCKET # 26396USDX PCT
NV. Alexis COLLETTE et al.
JSSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

Plasmodium berghei infection of B10D2 mice

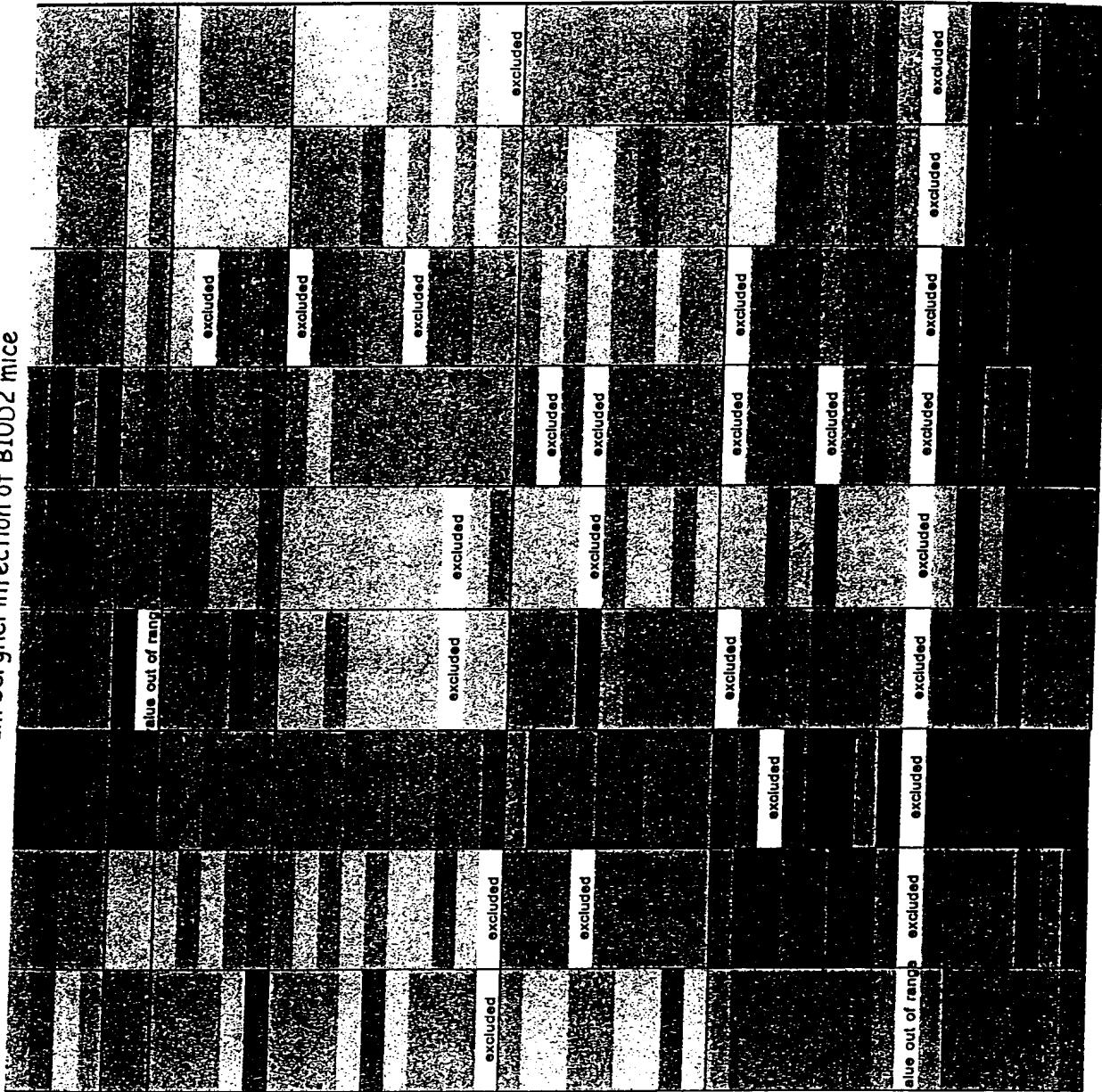


FIG. 58D

FIG. 59A

Tableau ANOVA pour TCRBV01

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	487,099	44,282	,963	,4876	10,593	,481
Résidu	70	3218,716	45,982				

Tableau de moyennes pour TCRBV01

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	5	12,655	6,248	2,794
CM+S	7	11,770	8,471	3,202
J3P	5	5,210	1,421	,636
J3S	4	5,197	1,317	,659
J4P	9	5,749	2,066	,689
J4S	9	8,000	8,378	2,793
J5P	9	7,802	9,117	3,039
J5S	10	6,450	1,743	,551
J6P	8	10,107	9,711	3,433
J6S	10	10,615	8,486	2,683
TNP	2	4,928	1,360	,961
TNS	4	5,823	2,616	1,308

FIG. 59B

Graphique des interactions pour TCRBV01

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

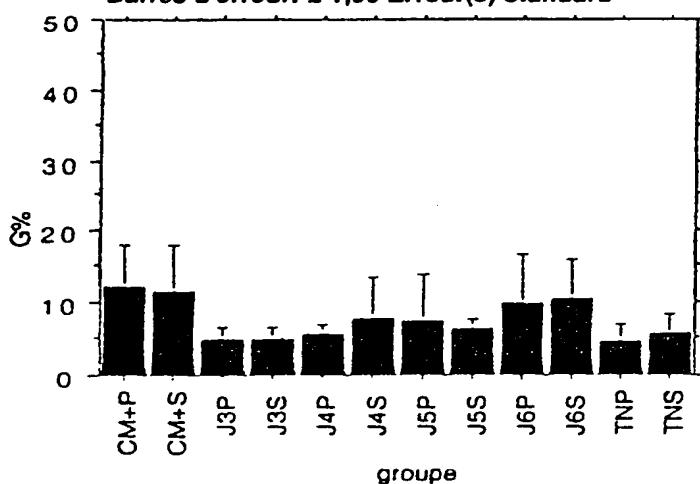


FIG.59C

Test PLSD de Fisher pour TCRBV01

Effet : Groupe

Niveau de significativité : 5 %

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	.885	7,919	,8242
CM+P, J3P	7,445	8,553	,0870
CM+P, J3S	7,458	9,072	,1056
CM+P, J4P	6,906	7,543	,0721
CM+P, J4S	4,655	7,543	,2225
CM+P, J5P	4,852	7,543	,2037
CM+P, J5S	6,205	7,408	,0993
CM+P, J6P	2,548	7,710	,5120
CM+P, J6S	2,040	7,408	,5848
CM+P, TNP	7,727	11,315	,1776
CM+P, TNS	6,832	9,072	,1376
CM+S, J3P	6,580	7,919	,1030
CM+S, J3S	6,573	8,477	,1265
CM+S, J4P	6,021	6,816	,0625
CM+S, J4S	3,770	6,816	,2738
CM+S, J5P	3,967	6,816	,2496
CM+S, J5S	5,320	6,665	,1159
CM+S, J6P	1,682	6,999	,6372
CM+S, J6S	1,155	6,665	,7308
CM+S, TNP	6,842	10,844	,2124
CM+S, TNS	5,947	8,477	,1662
J3P, J3S	,013	9,072	,9977
J3P, J4P	-,539	7,543	,8870
J3P, J4S	-2,790	7,543	,4632
J3P, J5P	-2,593	7,543	,4953
J3P, J5S	-1,240	7,408	,7395
J3P, J6P	-4,897	7,710	,2094
J3P, J6S	-5,405	7,408	,1500
J3P, TNP	,282	11,315	,9605
J3P, TNS	-,613	9,072	,8932
J3S, J4P	-,552	8,127	,8926
J3S, J4S	-2,803	8,127	,4938
J3S, J5P	-2,805	8,127	,5247
J3S, J5S	-1,253	8,001	,7557
J3S, J6P	-4,910	8,282	,2410
J3S, J6S	-5,418	8,001	,1812
J3S, TNP	,269	11,712	,9636
J3S, TNS	-,626	9,563	,8985
J4P, J4S	-2,251	6,375	,4837
J4P, J5P	-2,053	6,375	,5228
J4P, J5S	-,701	6,214	,8227
J4P, J6P	-4,358	6,572	,1902
J4P, J6S	-4,866	6,214	,1226
J4P, TNP	,821	10,572	,8773
J4P, TNS	-,074	8,127	,9856
J4S, J5P	,198	6,375	,9509
J4S, J5S	1,550	6,214	,6204
J4S, J6P	-2,107	6,572	,5246
J4S, J6S	-2,615	6,214	,4041
J4S, TNP	3,072	10,572	,5641
J4S, TNS	2,177	8,127	,5948
J5P, J5S	1,352	6,214	,6656
J5P, J6P	-2,305	6,572	,4865
J5P, J6S	-2,813	6,214	,3697
J5P, TNP	2,874	10,572	,5894
J5P, TNS	1,980	8,127	,6266
J5S, J6P	-3,657	6,415	,2594
J5S, J6S	-4,185	6,048	,1740
J5S, TNP	1,522	10,476	,7729
J5S, TNS	,627	8,001	,8762
J6P, J6S	-,508	6,415	,8750
J6P, TNP	5,179	10,692	,3373
J6P, TNS	4,284	8,282	,3057
J6S, TNP	5,687	10,476	,2826
J6S, TNS	4,792	8,001	,2363
TNP, TNS	-,895	11,712	,8793

FIG. 59D

FIG. 59E

Tableau ANOVA pour TCRBV02

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	2669,319	242,665	7,138	<.0001	78,523	1,000
Résidu	72	2447,564	33,994				

Tableau de moyennes pour TCRBV02

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	24,950	9,665	3,946
CM+S	7	13,764	4,939	1,867
J3P	5	5,477	,881	,394
J3S	4	4,920	1,670	,835
J4P	9	5,462	3,842	1,281
J4S	9	4,352	2,535	,845
J5P	9	6,816	3,818	1,272
J5S	10	8,401	4,782	1,512
J6P	10	14,921	11,227	3,550
J6S	10	11,333	4,562	1,443
TNP	2	5,715	2,955	2,089
TNS	3	2,963	,461	,266

FIG. 59F

Courbe des interactions pour TCRBV02

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

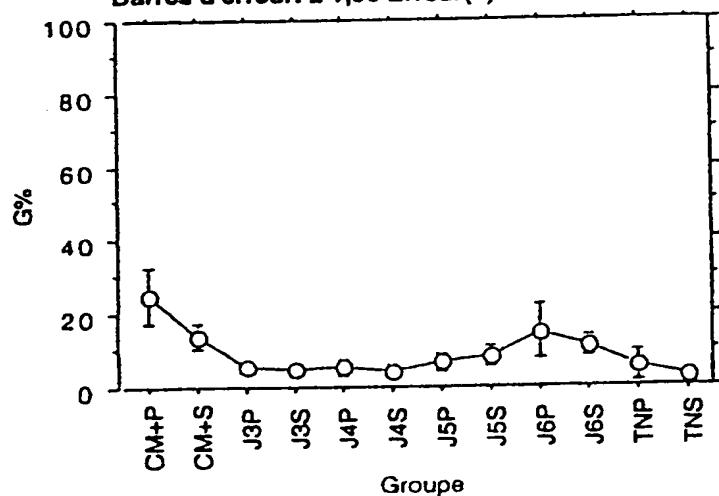


FIG. 59G

Test PLSD de Fisher pour TCRBV02

Effet : Groupe

Niveau de significativité : 5 %

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	11,186	6,466	,0009	S
CM+P, J3P	19,473	7,038	<,0001	S
CM+P, J3S	20,031	7,502	<,0001	S
CM+P, J4P	19,489	6,126	<,0001	S
CM+P, J4S	20,598	6,126	<,0001	S
CM+P, J5P	18,135	6,126	<,0001	S
CM+P, J5S	16,550	6,002	<,0001	S
CM+P, J6P	10,029	6,002	,0014	S
CM+P, J6S	13,618	6,002	<,0001	S
CM+P, TNP	19,235	9,490	,0001	S
CM+P, TNS	21,987	8,219	<,0001	S
CM+S, J3P	8,287	6,806	,0177	S
CM+S, J3S	8,845	7,285	,0180	S
CM+S, J4P	8,303	5,857	,0061	S
CM+S, J4S	9,412	5,857	,0020	S
CM+S, J5P	6,949	5,857	,0207	S
CM+S, J5S	5,364	5,728	,0660	
CM+S, J6P	-1,157	5,728	,6884	
CM+S, J6S	2,432	5,728	,4002	
CM+S, TNP	8,049	9,319	,0894	
CM+S, TNS	10,801	8,020	,0090	S
J3P, J3S	,558	7,797	,8870	
J3P, J4P	,016	6,483	,9962	
J3P, J4S	1,125	6,483	,7304	
J3P, J5P	-1,339	6,483	,6818	
J3P, J5S	-2,923	6,366	,3630	
J3P, J6P	-9,444	6,366	,0042	S
J3P, J6S	-5,855	6,366	,0709	
J3P, TNP	-,238	9,724	,9612	
J3P, TNS	2,514	8,488	,5568	
J3S, J4P	-,542	6,984	,8775	
J3S, J4S	,567	6,984	,8718	
J3S, J5P	-1,896	6,984	,5900	
J3S, J5S	-3,481	6,876	,3163	
J3S, J6P	-10,002	6,876	,0049	S
J3S, J6S	-6,413	6,876	,0671	
J3S, TNP	-,796	10,066	,8752	
J3S, TNS	1,956	8,877	,6618	
J4P, J4S	1,109	5,479	,6877	
J4P, J5P	-1,354	5,479	,6237	
J4P, J5S	-2,939	5,340	,2762	
J4P, J6P	-9,460	5,340	,0007	S
J4P, J6S	-5,871	5,340	,0316	S
J4P, TNP	-,254	9,086	,9557	
J4P, TNS	2,498	7,749	,5225	
J4S, J5P	-2,463	5,479	,3731	
J4S, J5S	-4,048	5,340	,1351	
J4S, J6P	-10,589	5,340	,0002	S
J4S, J6S	-6,980	5,340	,0111	S
J4S, TNP	-1,363	9,086	,7658	
J4S, TNS	1,389	7,749	,7219	
J5P, J5S	-1,585	5,340	,5560	
J5P, J6P	-8,106	5,340	,0034	S
J5P, J6S	-4,517	5,340	,0961	
J5P, TNP	1,100	9,086	,8099	
J5P, TNS	3,852	7,749	,3250	
J5S, J6P	-6,521	5,198	,0147	
J5S, J6S	-2,932	5,198	,2646	
J5S, TNP	2,685	9,003	,5540	
J5S, TNS	5,437	7,651	,1609	
J6P, J6S	3,589	5,198	,1730	
J6P, TNP	9,206	9,003	,0452	S
J6P, TNS	11,958	7,651	,0026	S
J6S, TNP	5,617	9,003	,2176	
J6S, TNS	8,369	7,851	,0325	
TNP, TNS	2,752	10,610	,6067	

FIG. 59 H

FIG. 60A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	1734,159	157,651	4,890	<.0001	53,795	1,000
Résidu	72	2321,022	32,236				

Tableau de moyennes pour TCRBV03

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	18,836	3,623	1,479
CM+S	7	10,820	2,765	1,045
J3P	5	5,331	1,231	.551
J3S	4	5,430	1,650	.825
J4P	10	7,461	8,978	2,839
J4S	9	4,415	.982	.327
J5P	8	5,793	1,245	.440
J5S	10	10,189	5,355	1,693
J6P	9	13,548	6,523	2,174
J6S	10	15,192	9,694	3,066
TNP	2	5,383	1,319	.933
TNS	4	3,344	1,322	.661

Courbe des interactions pour TCRBV03

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

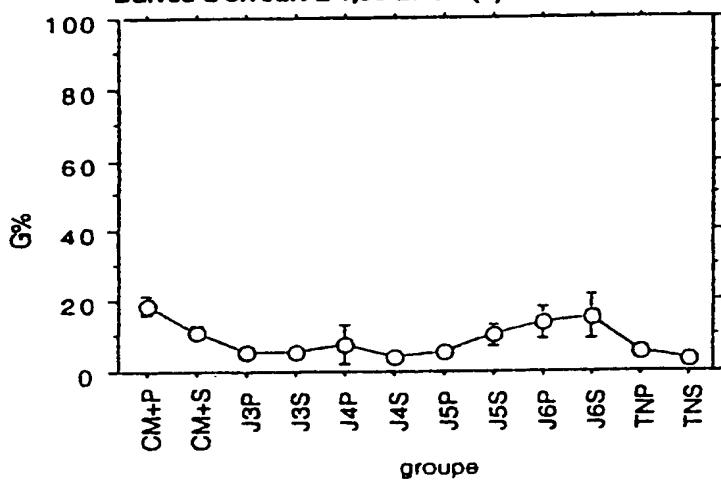


FIG. 60C

FIG. 60D

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	6,016	6,297	,0133	S
CM+P, J3P	13,505	6,854	,0002	S
CM+P, J3S	13,406	7,306	,0005	S
CM+P, J4P	11,374	5,845	,0002	S
CM+P, J4S	14,421	5,965	<,0001	S
CM+P, J5P	13,043	6,113	<,0001	S
CM+P, J5S	6,647	5,845	,0043	S
CM+P, J6P	5,288	5,965	,0815	
CM+P, J6S	3,844	5,845	,2180	
CM+P, TNP	13,452	9,241	,0049	S
CM+P, TNS	15,491	7,306	<,0001	S
CM+S, J3P	5,469	6,627	,1031	
CM+S, J3S	5,391	7,094	,1342	
CM+S, J4P	3,359	5,578	,2339	
CM+S, J4S	6,405	5,704	,0283	S
CM+S, J5P	5,027	5,858	,0914	
CM+S, J5S	,632	5,578	,8221	
CM+S, J6P	-2,728	5,704	,3436	
CM+S, J6S	-4,372	5,578	,1226	
CM+S, TNP	5,437	9,075	,2363	
CM+S, TNS	7,476	7,094	,0392	S
J3P, J3S	-,099	7,593	,9794	
J3P, J4P	-2,130	6,198	,4955	
J3P, J4S	,916	6,313	,7732	
J3P, J5P	-,462	6,452	,8869	
J3P, J5S	-4,858	6,199	,1227	
J3P, J6P	-8,217	6,313	,0115	S
J3P, J6S	-9,861	6,199	,0022	S
J3P, TNP	-,052	9,470	,9912	
J3P, TNS	1,987	7,593	,6035	
J3S, J4P	-2,032	6,696	,5472	
J3S, J4S	1,016	6,801	,7670	
J3S, J5P	-,363	6,931	,9171	
J3S, J5S	-4,759	6,696	,1609	
J3S, J6P	-8,118	6,801	,0200	S
J3S, J6S	-9,762	6,696	,0049	S
J3S, TNP	-,046	9,802	,9925	
J3S, TNS	2,086	8,003	,6050	
J4P, J4S	3,046	5,200	,2468	
J4P, J5P	1,668	5,369	,5376	
J4P, J5S	-2,727	5,062	,2863	
J4P, J6P	-6,087	5,200	,0224	S
J4P, J6S	-7,731	5,062	,0033	S
J4P, TNP	2,078	8,767	,6380	
J4P, TNS	4,117	6,696	,2243	
J4S, J5P	-1,378	5,500	,6180	
J4S, J5S	-5,774	5,200	,0301	S
J4S, J6P	-9,133	5,338	,0011	S
J4S, J6S	-10,777	5,200	<,0001	S
J4S, TNP	-,968	8,848	,8279	
J4S, TNS	1,071	6,801	,7545	
J5P, J5S	-4,396	5,369	,1070	
J5P, J6P	-7,755	5,500	,0064	S
J5P, J6S	-9,399	5,369	,0008	S
J5P, TNP	-,410	8,948	,9275	
J5P, TNS	2,449	8,931	,4835	
J5S, J6P	-3,359	5,200	,2020	
J5S, J6S	-5,003	5,062	,0526	
J5S, TNP	4,605	8,767	,2782	
J5S, TNS	6,845	6,696	,0453	S
J6P, J6S	-1,644	5,200	,5306	
J6P, TNP	8,165	8,848	,0700	
J6P, TNS	10,204	6,801	,0038	S
J6S, TNP	9,808	8,767	,0288	S
J6S, TNS	11,848	6,696	,0007	S
TNP, TNS	2,039	9,802	,6796	

FIG. 60E

Tableau ANOVA pour TCRBV04

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	480,614	43,692	,929	,5183	10,216	,465
Résidu	71	3340,055	47,043				

Tableau de moyennes pour TCRBV04

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	12,811	8,847	3,612
CM+S	7	8,619	3,258	1,231
J3P	5	7,932	2,114	,945
J3S	4	5,369	1,230	,615
J4P	10	9,371	10,068	3,184
J4S	9	5,627	2,092	,697
J5P	9	10,016	10,982	3,661
J5S	10	5,395	2,913	,921
J6P	8	10,734	10,645	3,764
J6S	10	6,812	2,906	,919
TNP	2	3,313	,404	,286
TNS	3	5,444	1,555	,898

FIG. 60F

Courbe des interactions pour TCRBV04

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

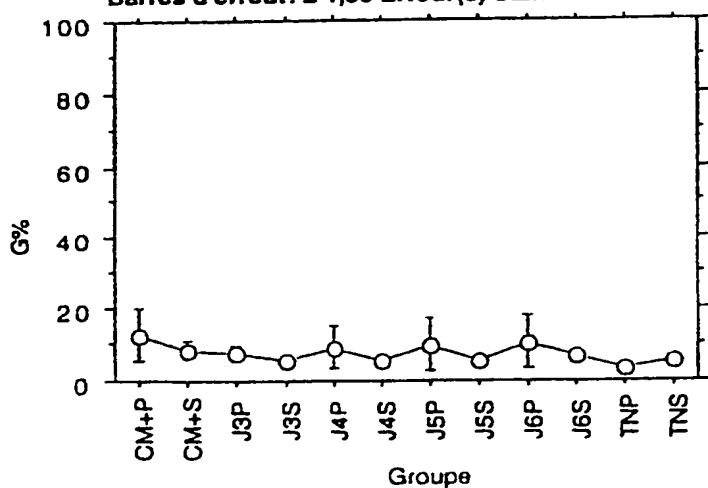


FIG. 60G

FIG. 60 H

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	4,193	7,609	.2756
CM+P, J3P	4,879	8,281	.2440
CM+P, J3S	7,442	8,828	.0972
CM+P, J4P	3,440	7,062	.3347
CM+P, J4S	7,184	7,208	.0507
CM+P, J5P	2,795	7,208	.4419
CM+P, J5S	7,416	7,062	.0398
CM+P, J6P	2,077	7,386	.5767
CM+P, J6S	5,999	7,062	.0947
CM+P, TNP	9,498	11,166	.0943
CM+P, TNS	7,368	9,670	.1332
CM+S, J3P	,687	8,008	.8648
CM+S, J3S	3,249	8,572	.4522
CM+S, J4P	-,753	6,740	.8244
CM+S, J4S	2,992	6,892	.3897
CM+S, J5P	-1,397	6,892	.6873
CM+S, J5S	3,223	6,740	.3435
CM+S, J6P	-2,115	7,078	.5532
CM+S, J6S	1,806	6,740	.5947
CM+S, TNP	5,305	10,965	.3379
CM+S, TNS	3,175	9,437	.5045
J3P, J3S	2,563	9,174	.5793
J3P, J4P	-1,439	7,491	.7028
J3P, J4S	2,305	7,628	.5487
J3P, J5P	-2,084	7,828	.5877
J3P, J5S	2,537	7,491	.5017
J3P, J6P	-2,802	7,797	.4780
J3P, J6S	1,120	7,491	.7665
J3P, TNP	4,619	11,442	.4236
J3P, TNS	2,489	9,988	.6209
J3S, J4P	-4,002	8,091	.3273
J3S, J4S	-,258	8,218	.9503
J3S, J5P	-4,647	8,218	.2634
J3S, J5S	-,026	8,091	.9949
J3S, J6P	-5,364	8,375	.2057
J3S, J6S	-1,443	8,091	.7232
J3S, TNP	2,056	11,844	.7303
J3S, TNS	-,074	10,445	.9887
J4P, J4S	3,744	6,284	.2387
J4P, J5P	-,645	6,284	.8385
J4P, J5S	3,976	6,116	.1991
J4P, J6P	-1,362	6,487	.6766
J4P, J6S	2,559	6,116	.4069
J4P, TNP	6,058	10,593	.2580
J4P, TNS	3,928	9,003	.3873
J4S, J5P	-4,389	6,447	.1790
J4S, J5S	,232	6,284	.9416
J4S, J6P	-5,107	6,645	.1299
J4S, J6S	-1,185	6,284	.7080
J4S, TNP	2,314	10,691	.6674
J4S, TNS	,183	9,117	.9681
J5P, J5S	4,621	6,284	.1470
J5P, J6P	-,718	6,645	.8301
J5P, J6S	3,204	6,284	.3128
J5P, TNP	6,703	10,691	.2154
J5P, TNS	4,572	9,117	.3207
J5S, J6P	-5,339	6,487	.1052
J5S, J6S	-1,417	6,116	.6455
J5S, TNP	2,082	10,593	.6963
J5S, TNS	-,048	9,003	.9915
J6P, J6S	3,922	6,487	.2321
J6P, TNP	7,421	10,812	.1755
J6P, TNS	5,290	9,259	.2584
J6S, TNP	3,499	10,593	.5123
J6S, TNS	1,369	9,003	.7627
TNP, TNS	-2,130	12,484	.7347

FIG. 61A

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	1661,862	151,078	1,949	,0508	21,436	,842
Résidu	59	4574,151	77,528				

Tableau de moyennes pour TCRBV05.1

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	26,657	8,159	3,331
CM+S	5	13,877	4,933	2,206
J3P	4	19,960	14,417	7,208
J3S	4	10,518	3,153	1,577
J4P	7	19,651	14,109	5,333
J4S	6	8,088	1,826	.746
J5P	7	20,393	9,875	3,733
J5S	8	15,429	8,348	2,952
J6P	8	19,805	7,737	2,735
J6S	10	19,787	8,877	2,807
TNP	2	11,334	1,795	1,269
TNS	4	14,094	5,006	2,503

FIG. 61B

Courbe des interactions pour TCRBV05.1

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

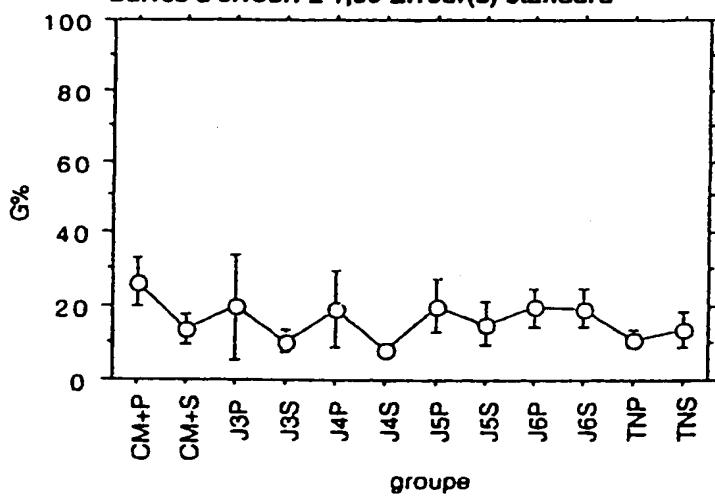


FIG. 61C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	12,780	10,669	,0197	S
CM+P, J3P	6,697	11,373	,2434	
CM+P, J3S	16,139	11,373	,0062	S
CM+P, J4P	7,006	9,802	,1579	
CM+P, J4S	18,569	10,172	,0006	S
CM+P, J5P	6,264	9,802	,2060	
CM+P, J5S	11,228	9,515	,0215	S
CM+P, J6P	6,852	9,515	,1549	
CM+P, J6S	6,870	9,098	,1362	
CM+P, TNP	16,323	14,386	,0372	S
CM+P, TNS	12,583	11,373	,0310	S
CM+S, J3P	-6,083	11,819	,3073	
CM+S, J3S	3,359	11,819	,5717	
CM+S, J4P	-5,774	10,316	,2673	
CM+S, J4S	5,789	10,669	,2820	
CM+S, J5P	-6,516	10,316	,2112	
CM+S, J5S	-1,552	10,044	,7582	
CM+S, J6P	-5,928	10,044	,2423	
CM+S, J6S	-5,910	9,650	,2252	
CM+S, TNP	2,543	14,741	,7312	
CM+S, TNS	-217	11,819	,9709	
J3P, J3S	9,442	12,458	,1347	
J3P, J4P	,310	11,043	,9554	
J3P, J4S	11,872	11,373	,0410	S
J3P, J5P	-433	11,043	,9378	
J3P, J5S	4,531	10,789	,4041	
J3P, J6P	,155	10,789	,9771	
J3P, J6S	,173	10,423	,9736	
J3P, TNP	8,626	15,258	,2625	
J3P, TNS	5,887	12,458	,3499	
J3S, J4P	-9,133	11,043	,1033	
J3S, J4S	2,430	11,373	,6705	
J3S, J5P	-9,875	11,043	,0787	
J3S, J5S	-4,911	10,789	,3661	
J3S, J6P	-9,287	10,789	,0902	
J3S, J6S	-9,269	10,423	,0803	
J3S, TNP	,816	15,258	,9151	
J3S, TNS	-3,576	12,458	,5679	
J4P, J4S	11,563	9,802	,0216	S
J4P, J5P	,742	9,418	,8752	
J4P, J5S	4,221	9,119	,3580	
J4P, J6P	,155	9,119	,9731	
J4P, J6S	,137	8,683	,9750	
J4P, TNP	8,317	14,126	,2435	
J4P, TNS	5,557	11,043	,3181	
J4S, J5P	-12,305	9,802	,0148	S
J4S, J5S	-7,341	9,515	,1280	
J4S, J6P	-11,717	9,515	,0167	S
J4S, J6S	-11,700	9,098	,0126	S
J4S, TNP	-3,246	14,386	,6533	
J4S, TNS	-6,006	11,373	,2950	
J5P, J5S	4,984	9,119	,2805	
J5P, J6P	,588	9,119	,8978	
J5P, J6S	,606	8,683	,8894	
J5P, TNP	9,059	14,126	,2044	
J5P, TNS	6,299	11,043	,2583	
J5S, J6P	-4,376	8,809	,3243	
J5S, J6S	-4,358	8,357	,3010	
J5S, TNP	4,095	13,929	,5586	
J5S, TNS	1,336	10,789	,8052	
J6P, J6S	,018	8,357	,9966	
J6P, TNP	8,471	13,929	,2285	
J6P, TNS	5,712	10,789	,2938	
J6S, TNP	8,453	13,647	,2201	
J6S, TNS	5,694	10,423	,2788	
TNP, TNS	-2,760	15,258	,7187	

FIG. 61D

FIG.61E

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	1350,634	122,785	6,040	<.0001	66,443	1,000
Résidu	68	1382,288	20,328				

Tableau de moyennes pour TCRBV05.2

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	5	23,300	7,151	3,198
CM+S	7	9,868	4,811	1,818
J3P	5	14,277	8,343	3,731
J3S	4	6,390	1,693	,847
J4P	8	10,889	1,436	,508
J4S	9	8,759	2,111	,704
J5P	8	17,091	3,750	1,326
J5S	10	8,415	6,726	2,127
J6P	8	12,346	3,849	1,361
J6S	10	9,966	2,723	,861
TNP	2	9,361	4,477	3,165
TNS	4	8,400	1,384	,692

FIG. 61F

Courbe des interactions pour TCRBV05.2

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

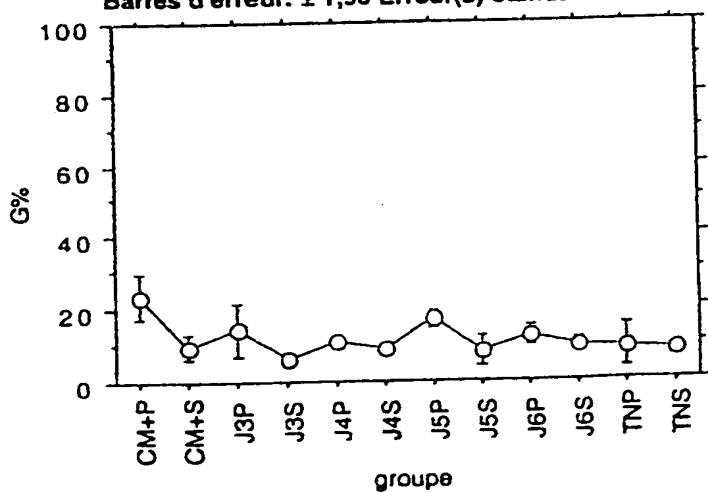


FIG. 61G

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	13,432	5,268	<.0001	S
CM+P, J3P	9,024	5,690	.0023	S
CM+P, J3S	16,910	6,035	<.0001	S
CM+P, J4P	12,411	5,129	<.0001	S
CM+P, J4S	14,541	5,018	<.0001	S
CM+P, J5P	6,209	5,129	.0184	S
CM+P, J5S	14,886	4,928	<.0001	S
CM+P, J6P	10,955	5,129	<.0001	S
CM+P, J6S	13,335	4,928	<.0001	S
CM+P, TNP	13,939	7,527	.0004	S
CM+P, TNS	14,901	6,035	<.0001	S
CM+S, J3P	-4,409	5,268	.0995	
CM+S, J3S	3,478	5,639	.2227	
CM+S, J4P	-1,021	4,656	.6632	
CM+S, J4S	1,109	4,534	.6271	
CM+S, J5P	-7,223	4,656	.0029	S
CM+S, J5S	1,454	4,434	.5152	
CM+S, J6P	-2,477	4,656	.2921	
CM+S, J6S	-.098	4,434	.9651	
CM+S, TNP	.507	7,214	.8888	
CM+S, TNS	1,469	5,639	.8050	
J3P, J3S	7,887	6,035	.0112	S
J3P, J4P	3,388	5,129	.1918	
J3P, J4S	5,518	5,018	.0317	S
J3P, J5P	-2,815	5,129	.2774	
J3P, J5S	5,862	4,928	.0204	
J3P, J6P	1,931	5,129	.4550	
J3P, J6S	4,311	4,928	.0854	
J3P, TNP	4,916	7,527	.1969	
J3P, TNS	5,877	6,035	.0561	
J3S, J4P	-4,499	5,509	.1078	
J3S, J4S	-2,369	5,406	.3850	
J3S, J5P	-10,701	5,509	.0002	S
J3S, J5S	-2,025	5,323	.4505	
J3S, J6P	-5,956	5,509	.0345	S
J3S, J6S	-3,576	5,323	.1845	
J3S, TNP	-2,971	7,791	.4494	
J3S, TNS	-2,009	6,362	.5308	
J4P, J4S	2,130	4,372	.3344	
J4P, J5P	-6,202	4,498	.0076	S
J4P, J5S	2,474	4,268	.2513	
J4P, J6P	-1,457	4,498	.5203	
J4P, J6S	.923	4,268	.6674	
J4P, TNP	1,528	7,113	.6695	
J4P, TNS	2,489	5,509	.3704	
J4S, J5P	-8,332	4,372	.0003	S
J4S, J5S	.345	4,134	.8884	
J4S, J6P	-3,586	4,372	.1062	
J4S, J6S	-1,207	4,134	.5622	
J4S, TNP	.602	7,033	.8649	
J4S, TNS	.360	5,406	.8948	
J5P, J5S	8,677	4,268	.0001	S
J5P, J6P	4,746	4,498	.0390	S
J5P, J6S	7,126	4,268	.0014	S
J5P, TNP	7,730	7,113	.0336	S
J5P, TNS	8,692	5,509	.0024	S
J5S, J6P	-3,931	4,268	.0704	
J5S, J6S	-1,551	4,024	.4444	
J5S, TNP	-.946	6,969	.7872	
J5S, TNS	.015	5,323	.9955	
J6P, J6S	2,380	4,268	.2697	
J6P, TNP	2,985	7,113	.4053	
J6P, TNS	3,946	5,509	.1575	
J6S, TNP	.605	6,969	.8630	
J6S, TNS	1,566	5,323	.5590	
TNP, TNS	.961	7,791	.8062	

FIG. 61 H

FIG. 62A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	1291,943	117,449	1,870	,0575	20,575	,837
Résidu	73	4583,735	62,791				

Tableau de moyennes pour TCRBV06

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	15,125	7,023	2,867
CM+S	7	10,994	7,245	2,739
J3P	5	7,344	2,440	1,091
J3S	5	17,100	10,958	4,901
J4P	10	11,019	8,113	2,566
J4S	9	8,340	8,466	2,822
J5P	9	7,467	2,436	,812
J5S	9	10,375	8,168	2,723
J6P	9	18,262	9,736	3,245
J6S	10	15,564	10,507	3,322
TNP	2	6,084	.261	,185
TNS	4	6,845	2,526	1,263

FIG. 62B

Courbe des interactions pour TCRBV06

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

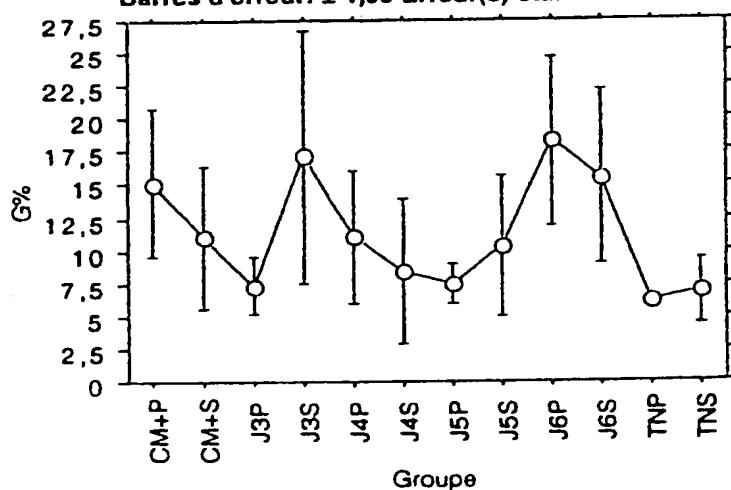


FIG. 62C

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	4,131	8,786	.3518
CM+P, J3P	7,781	9,563	.1092
CM+P, J3S	-1,975	9,563	.6818
CM+P, J4P	4,106	8,155	.3190
CM+P, J4S	6,784	8,323	.1086
CM+P, J5P	7,657	8,323	.0708
CM+P, J5S	4,749	8,323	.2592
CM+P, J6P	-3,137	8,323	.4550
CM+P, J6S	-440	8,155	.9148
CM+P, TNP	9,041	12,895	.1665
CM+P, TNS	8,280	10,194	.1098
CM+S, J3P	3,650	9,247	.4341
CM+S, J3S	-6,106	9,247	.1923
CM+S, J4P	-025	7,783	.9949
CM+S, J4S	2,653	7,959	.5085
CM+S, J5P	3,526	7,959	.3801
CM+S, J5S	.618	7,959	.8774
CM+S, J6P	-7,268	7,959	.0728
CM+S, J6S	-4,571	7,783	.2456
CM+S, TNP	4,910	12,662	.4421
CM+S, TNS	4,148	9,899	.4063
J3P, J3S	-9,756	9,988	.0554
J3P, J4P	-3,675	8,650	.3999
J3P, J4S	-.896	8,809	.8223
J3P, J6P	-.124	8,809	.9778
J3P, J5S	-3,032	8,809	.4949
J3P, J6P	-10,918	8,809	.0158
J3P, J6S	-8,220	8,650	.0622
J3P, TNP	1,260	13,213	.8498
J3P, TNS	.499	10,594	.9255
J3S, J4P	6,081	8,650	.1654
J3S, J4S	8,759	8,809	.0513
J3S, J5P	9,632	8,809	.0325
J3S, J5S	6,724	8,809	.1325
J3S, J6P	-1,162	8,809	.7933
J3S, J6S	1,536	8,650	.7245
J3S, TNP	11,016	13,213	.1009
J3S, TNS	10,255	10,594	.0576
J4P, J4S	2,678	7,256	.4643
J4P, J5P	3,551	7,256	.3326
J4P, J5S	.643	7,256	.8603
J4P, J6P	-7,243	7,256	.0504
J4P, J6S	-4,545	7,063	.2037
J4P, TNP	4,935	12,233	.4240
J4P, TNS	4,174	9,343	.3762
J4S, J5P	.873	7,445	.8159
J4S, J5S	-2,035	7,445	.5875
J4S, J6P	-9,921	7,445	.0097
J4S, J6S	-7,224	7,256	.0510
J4S, TNP	2,257	12,346	.7167
J4S, TNS	1,495	9,490	.7544
J5P, J5S	-2,908	7,445	.4388
J5P, J6P	-10,794	7,445	.0051
J5P, J6S	-8,097	7,256	.0293
J5P, TNP	1,384	12,346	.8239
J5P, TNS	.622	9,490	.8964
J5S, J6P	-7,886	7,445	.0382
J5S, J6S	-5,189	7,256	.1584
J5S, TNP	4,292	12,346	.4908
J5S, TNS	3,530	9,490	.4608
J6P, J6S	2,698	7,256	.4611
J6P, TNP	12,178	12,346	.0531
J6P, TNS	11,417	9,490	.0191
J6S, TNP	9,480	12,233	.1268
J6S, TNS	8,719	9,343	.0669
TNP, TNS	-,761	13,677	.9120

FIG. 62D

FIG.62E

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	1662,073	151,098	2,273	,0190	24,999	,916
Résidu	73	4853,374	66,485				

Tableau de moyennes pour TCRBV07

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	22,571	12,580	5,136
CM+S	7	12,394	5,957	2,251
J3P	4	8,192	3,515	1,758
J3S	5	18,202	12,455	5,570
J4P	10	9,671	7,238	2,289
J4S	9	7,380	1,678	,559
J5P	9	7,781	3,973	1,324
J5S	10	11,235	7,477	2,365
J6P	9	17,036	11,325	3,775
J6S	10	13,534	9,840	3,112
TNP	2	5,798	1,335	,944
TNS	4	11,232	7,499	3,749

FIG. 62F

Courbe des interactions pour TCRBV07

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

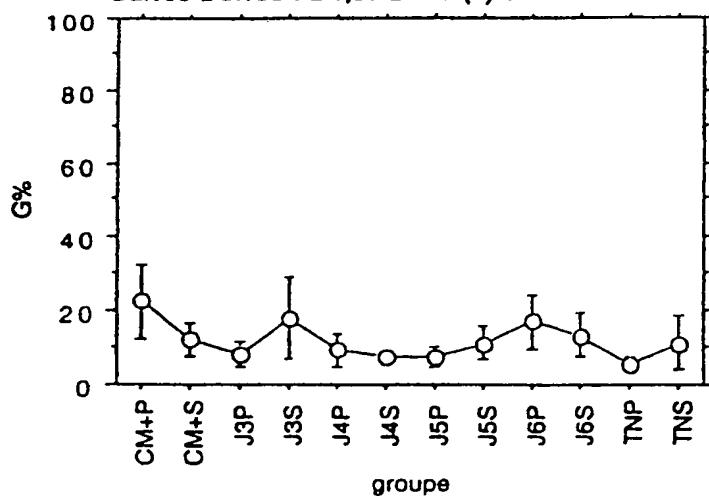


FIG. 62G

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	10,177	9,041	,0279	S
CM+P, J3P	14,380	10,490	,0079	S
CM+P, J3S	4,369	9,840	,3791	
CM+P, J4P	12,900	8,392	,0031	S
CM+P, J4S	15,191	8,565	,0007	S
CM+P, J5P	14,790	8,565	,0010	S
CM+P, J5S	11,336	8,392	,0088	S
CM+P, J6P	5,535	8,565	,2018	
CM+P, J6S	9,037	8,392	,0352	S
CM+P, TNP	16,773	13,268	,0139	S
CM+P, TNS	11,339	10,490	,0345	S
CM+S, J3P	4,202	10,186	,4136	
CM+S, J3S	-5,808	9,515	,2277	
CM+S, J4P	2,723	8,008	,5002	
CM+S, J4S	5,014	8,189	,2263	
CM+S, J5P	4,612	8,189	,2653	
CM+S, J5S	1,159	8,008	,7739	
CM+S, J6P	-4,642	8,189	,2623	
CM+S, J6S	-1,140	8,008	,7775	
CM+S, TNP	6,596	13,029	,3163	
CM+S, TNS	1,162	10,186	,8208	
J3P, J3S	-10,011	10,901	,0713	
J3P, J4P	-1,480	9,614	,7599	
J3P, J4S	,811	9,765	,8689	
J3P, J5P	,410	9,765	,9335	
J3P, J5S	-3,044	9,614	,5301	
J3P, J6P	-8,845	9,765	,0752	
J3P, J6S	-5,342	9,614	,2717	
J3P, TNP	2,394	14,073	,7356	
J3P, TNS	-3,041	11,491	,5995	
J3S, J4P	8,531	8,901	,0600	
J3S, J4S	10,822	9,064	,0200	S
J3S, J5P	10,421	9,064	,0248	S
J3S, J5S	6,967	8,901	,1231	
J3S, J6P	1,166	9,064	,7984	
J3S, J6S	4,668	8,901	,2993	
J3S, TNP	12,404	13,596	,0731	
J3S, TNS	6,970	10,901	,2066	
J4P, J4S	2,291	7,467	,5428	
J4P, J5P	,890	7,467	,6155	
J4P, J5S	-1,564	7,287	,6693	
J4P, J6P	-7,365	7,467	,0531	
J4P, J6S	-3,863	7,287	,2930	
J4P, TNP	3,873	12,588	,5416	
J4P, TNS	-1,561	9,614	,7472	
J4S, J5P	,401	7,661	,9171	
J4S, J5S	-3,855	7,467	,3069	
J4S, J6P	-9,656	7,661	,0142	S
J4S, J6S	-6,154	7,467	,1048	
J4S, TNP	1,582	12,704	,8046	
J4S, TNS	-3,852	9,765	,4343	
J5P, J5S	-3,454	7,467	,3596	
J5P, J6P	-9,255	7,661	,0186	S
J5P, J6S	-5,752	7,467	,1290	
J5P, TNP	1,984	12,704	,7565	
J5P, TNS	-3,451	9,765	,4835	
J5S, J6P	-5,801	7,467	,1258	
J5S, J6S	-2,299	7,287	,5304	
J5S, TNP	5,437	12,588	,3921	
J5S, TNS	,003	9,614	,9995	
J6P, J6S	3,502	7,467	,3530	
J6P, TNP	11,238	12,704	,0821	
J6P, TNS	5,804	9,765	,2401	
J6S, TNP	7,736	12,588	,2246	
J6S, TNS	2,302	9,614	,6347	
TNP, TNS	-5,435	14,073	,4440	

FIG. 62 H

FIG. 63A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	460,326	41,848	2,870	,0035	31,573	,973
Résidu	73	1064,330	14,580				

Tableau de moyennes pour TCRBV08.1

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	11,623	5,609	2,290
CM+S	7	8,948	2,515	,950
J3P	5	7,514	1,811	,810
J3S	5	7,790	3,225	1,442
J4P	10	6,330	1,351	,427
J4S	9	4,583	1,739	,580
J5P	9	6,969	1,629	,543
J5S	10	6,622	2,787	,881
J6P	8	9,385	3,428	1,212
J6S	10	11,825	8,039	2,542
TNP	2	6,355	2,775	1,963
TNS	4	4,560	1,918	,959

FIG. 63B

Courbe des interactions pour TCRBV08.1

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

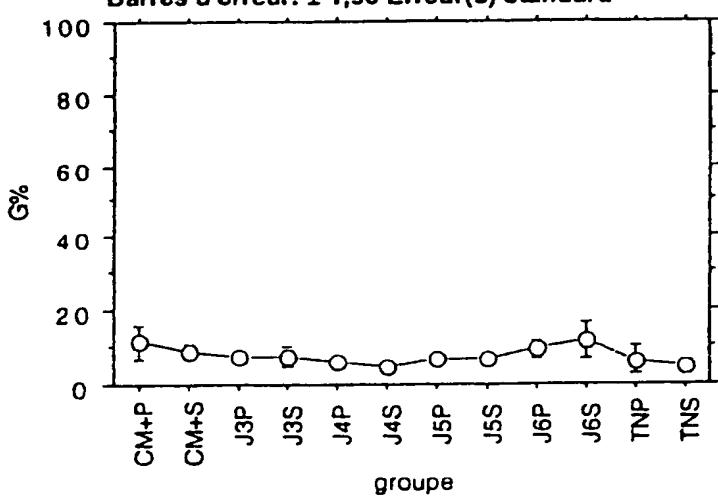


FIG. 63C

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	2,675	4,234	,2119
CM+P, J3P	4,109	4,608	,0797
CM+P, J3S	3,833	4,808	,1017
CM+P, J4P	5,293	3,930	,0090 S
CM+P, J4S	7,040	4,011	,0008 S
CM+P, J5P	4,654	4,011	,0236 S
CM+P, J5S	5,001	3,930	,0133 S
CM+P, J6P	2,238	4,110	,2813
CM+P, J6S	-,202	3,930	,9185
CM+P, TNP	5,267	6,214	,0954
CM+P, TNS	7,063	4,912	,0064 S
CM+S, J3P	1,434	4,456	,5234
CM+S, J3S	1,157	4,456	,6063
CM+S, J4P	2,618	3,750	,1684
CM+S, J4S	4,365	3,835	,0283 S
CM+S, J5P	1,978	3,835	,3072
CM+S, J5S	2,325	3,750	,2205
CM+S, J6P	-,437	3,939	,8256
CM+S, J6S	-2,878	3,750	,1305
CM+S, TNP	2,592	6,102	,3999
CM+S, TNS	4,388	4,770	,0708
J3P, J3S	-,276	4,813	,9092
J3P, J4P	1,184	4,168	,5730
J3P, J4S	2,931	4,245	,1729
J3P, J5P	,545	4,245	,7988
J3P, J5S	,892	4,168	,6711
J3P, J6P	-1,871	4,338	,3930
J3P, J6S	-4,311	4,168	,0428 S
J3P, TNP	1,158	6,367	,7179
J3P, TNS	2,954	5,105	,2525
J3S, J4P	1,461	4,168	,4872
J3S, J4S	3,208	4,245	,1363
J3S, J5P	,821	4,245	,7008
J3S, J5S	1,168	4,168	,5781
J3S, J6P	-1,594	4,338	,4663
J3S, J6S	-4,035	4,168	,0576
J3S, TNP	1,435	6,367	,6547
J3S, TNS	3,231	5,105	,2112
J4P, J4S	1,747	3,497	,3226
J4P, J5P	-,639	3,497	,7167
J4P, J5S	,292	3,403	,8645
J4P, J6P	-3,055	3,610	,0960
J4P, J6S	-5,496	3,403	,0019 S
J4P, TNP	-,026	5,895	,9931
J4P, TNS	1,770	4,502	,4358
J4S, J5P	-2,386	3,587	,1890
J4S, J5S	-2,040	3,497	,2488
J4S, J6P	-4,802	3,698	,0116 S
J4S, J6S	-7,243	3,497	,<0001 S
J4S, TNP	-1,773	5,949	,5544
J4S, TNS	,023	4,573	,9921
J5P, J5S	,347	3,497	,8439
J5P, J6P	-2,416	3,698	,1970
J5P, J6S	-4,858	3,497	,0071 S
J5P, TNP	,613	5,949	,8377
J5P, TNS	2,409	4,573	,2972
J5S, J6P	-2,762	3,610	,1315
J5S, J6S	-5,203	3,403	,0032 S
J5S, TNP	,267	5,895	,9284
J5S, TNS	2,063	4,502	,3642
J6P, J6S	-2,441	3,810	,1820
J6P, TNP	3,029	6,016	,3190
J6P, TNS	4,825	4,660	,0426 S
J6S, TNP	5,470	5,895	,0685
J6S, TNS	7,266	4,502	,0019 S
TNP, TNS	1,796	6,590	,5887

FIG. 63D

FIG.63E

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	261,752	23,796	,845	,5966	9,294	,423
Résidu	72	2027,752	28,163				

Tableau de moyennes pour TCRBV08.2

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	9,424	4,193	1,712
CM+S	7	9,822	8,175	3,090
J3P	5	7,368	3,371	1,508
J3S	5	11,440	8,893	3,977
J4P	10	7,015	3,452	1,092
J4S	9	5,927	2,128	.709
J5P	8	7,913	2,982	1,054
J5S	10	7,678	4,199	1,328
J6P	8	9,707	5,289	1,870
J6S	10	11,101	8,149	2,577
TNP	2	6,014	1,405	.993
TNS	4	6,761	2,393	1,197

FIG. 63F

Graphique des interactions pour TCRBV08.2

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

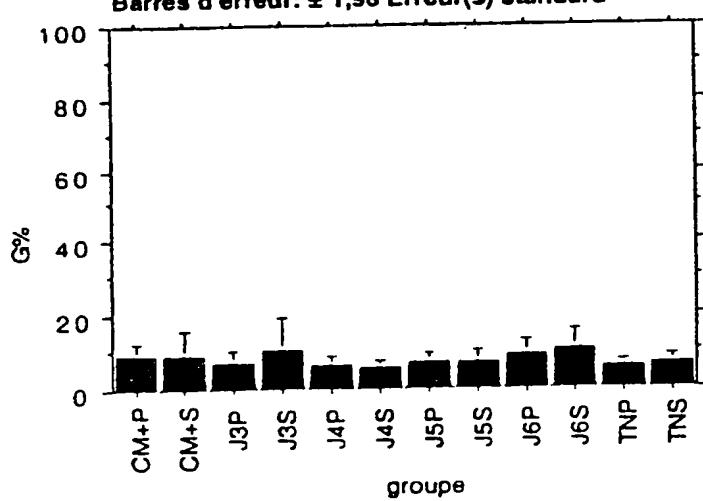


FIG. 63G

	Dif. moy.	Dif. crit.	Valeur p
CM+P, CM+S	-.398	5,886	,8933
CM+P, J3P	2,056	6,406	,5243
CM+P, J3S	-2,016	6,406	,5325
CM+P, J4P	2,409	5,463	,3822
CM+P, J4S	3,497	5,576	,2152
CM+P, J5P	1,511	5,713	,5996
CM+P, J5S	1,746	5,463	,5261
CM+P, J6P	-.283	5,713	,9217
CM+P, J6S	-1,677	5,463	,5425
CM+P, TNP	3,410	8,638	,4339
CM+P, TNS	2,663	6,829	,4395
CM+S, J3P	2,454	6,194	,4323
CM+S, J3S	-1,618	6,194	,6042
CM+S, J4P	2,807	5,213	,2867
CM+S, J4S	3,895	5,331	,1497
CM+S, J5P	1,909	5,475	,4893
CM+S, J5S	2,143	5,213	,4152
CM+S, J6P	.115	5,475	,9667
CM+S, J6S	-1,280	5,213	,6262
CM+S, TNP	3,807	8,482	,3739
CM+S, TNS	3,060	6,631	,3606
J3P, J3S	-4,072	6,691	,2290
J3P, J4P	.353	5,794	,9036
J3P, J4S	1,441	5,901	,6279
J3P, J5P	-.545	6,031	,8576
J3P, J5S	-.310	5,794	,9153
J3P, J6P	-2,339	6,031	,4420
J3P, J6S	-3,733	5,794	,2031
J3P, TNP	1,353	8,851	,7614
J3P, TNS	.606	7,097	,8652
J3S, J4P	4,425	5,794	,1323
J3S, J4S	5,513	5,901	,0666
J3S, J5P	3,527	6,031	,2475
J3S, J5S	3,761	5,794	,1998
J3S, J6P	1,733	6,031	,5686
J3S, J6S	.338	5,794	,9076
J3S, TNP	5,425	8,851	,2257
J3S, TNS	4,678	7,097	,1930
J4P, J4S	1,088	4,861	,6569
J4P, J5P	-.898	5,018	,7223
J4P, J5S	-.664	4,731	,7806
J4P, J6P	-2,692	5,018	,2884
J4P, J6S	-4,087	4,731	,0894
J4P, TNP	1,000	8,195	,8085
J4P, TNS	.253	6,259	,9360
J4S, J5P	-1,986	5,141	,4438
J4S, J5S	-1,751	4,861	,4750
J4S, J6P	-3,780	5,141	,1471
J4S, J6S	-5,174	4,861	,0373
J4S, TNP	-.087	8,270	,9832
J4S, TNS	-.835	6,357	,7943
J5P, J5S	.234	5,018	,9260
J5P, J6P	-1,794	5,290	,5011
J5P, J6S	-3,189	5,018	,2094
J5P, TNP	1,898	8,364	,6523
J5P, TNS	1,151	6,478	,7242
J5S, J6P	-2,028	5,018	,4230
J5S, J6S	-3,423	4,731	,1536
J5S, TNP	1,684	8,195	,6869
J5S, TNS	.917	6,259	,7711
J6P, J6S	-1,394	5,018	,5813
J6P, TNP	3,692	8,364	,3818
J6P, TNS	2,945	6,478	,3678
J6S, TNP	5,087	8,195	,2199
J6S, TNS	4,340	6,259	,1712
TNP, TNS	-.747	9,162	,8713

FIG. 63 H

FIG. 64A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	564,311	51,301	1,738	,0817	19,121	,801
Résidu	73	2154,478	29,513				

Tableau de moyennes pour TCRBV08.3

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	8,649	3,431	1,401
CM+S	7	10,400	7,544	2,851
J3P	5	4,319	1,074	,480
J3S	4	5,041	1,346	,673
J4P	10	5,428	3,063	,969
J4S	9	3,465	1,420	,473
J5P	8	6,072	2,450	,866
J5S	10	3,777	1,722	,545
J6P	10	10,578	12,746	4,031
J6S	10	7,271	3,527	1,115
TNP	2	4,127	,033	,023
TNS	4	3,071	,500	,250

FIG. 64B

Graphique des interactions pour TCRBV08.3

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

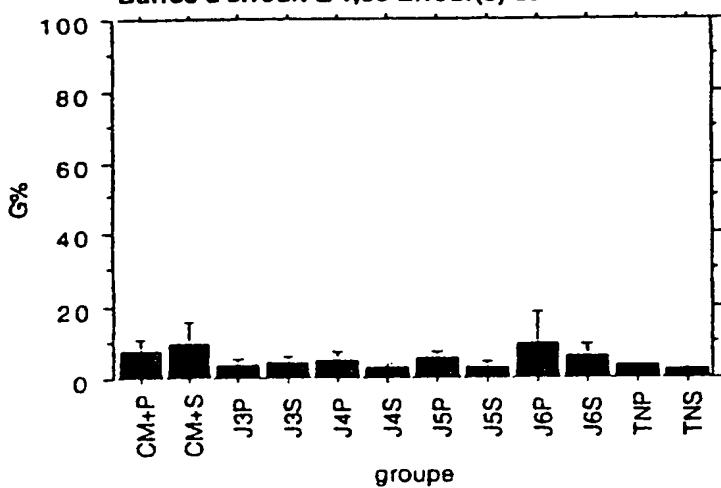


FIG. 64C

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	-1,751	6,024	.5641
CM+P, J3P	4,330	6,556	.1922
CM+P, J3S	3,608	6,989	.3070
CM+P, J4P	3,221	5,591	.2547
CM+P, J4S	5,183	5,706	.0744
CM+P, J5P	2,577	6,847	.3827
CM+P, J5S	4,872	5,591	.0867
CM+P, J6P	-1,930	5,591	.4938
CM+P, J6S	1,377	5,591	.8249
CM+P, TNP	4,522	8,840	.3114
CM+P, TNS	5,578	6,989	.1160
CM+S, J3P	6,081	6,340	.0598
CM+S, J3S	5,359	6,786	.1198
CM+S, J4P	4,972	5,336	.0673
CM+S, J4S	6,935	5,456	.0135
CM+S, J5P	4,328	5,604	.1281
CM+S, J5S	6,623	5,336	.0157
CM+S, J6P	-1,178	5,336	.9471
CM+S, J6S	3,129	5,336	.2463
CM+S, TNP	6,273	8,681	.1541
CM+S, TNS	7,329	6,786	.0347
J3P, J3S	-723	7,263	.8434
J3P, J4P	-1,109	5,930	.7104
J3P, J4S	,853	6,039	.7790
J3P, J5P	-1,753	6,172	.5730
J3P, J5S	,541	5,930	.8561
J3P, J6P	-6,260	5,930	.0388
J3P, J6S	-2,953	5,930	.3243
J3P, TNP	,192	9,059	.9664
J3P, TNS	1,248	7,263	.7331
J3S, J4P	-,387	6,405	.9046
J3S, J4S	1,576	6,506	.6307
J3S, J5P	-1,031	6,630	.7575
J3S, J5S	1,264	6,405	.6952
J3S, J6P	-5,537	6,405	.0892
J3S, J6S	-2,230	6,405	.4900
J3S, TNP	,915	9,377	.8464
J3S, TNS	1,970	7,656	.6096
J4P, J4S	1,963	4,975	.4342
J4P, J5P	-,644	5,136	.8033
J4P, J5S	1,651	4,842	.4990
J4P, J6P	-5,150	4,842	.0374
J4P, J6S	-1,843	4,842	.4505
J4P, TNP	1,301	8,387	.7580
J4P, TNS	2,357	6,405	.4657
J4S, J5P	-2,607	5,261	.3267
J4S, J5S	-,312	4,975	.9009
J4S, J6P	-7,113	4,975	.0057
J4S, J6S	-3,806	4,975	.1316
J4S, TNP	-,661	8,464	.8767
J4S, TNS	,394	6,506	.9042
J5P, J5S	2,295	5,136	.3761
J5P, J6P	-4,506	5,136	.0846
J5P, J6S	-1,199	5,136	.6431
J5P, TNP	1,945	8,560	.6519
J5P, TNS	3,001	6,630	.3700
J5S, J6P	-6,801	4,842	.0065
J5S, J6S	-3,494	4,842	.1547
J5S, TNP	-,350	8,387	.8340
J5S, TNS	,706	6,405	.8267
J6P, J6S	3,307	4,842	.1776
J6P, TNP	6,452	8,387	.1296
J6P, TNS	7,507	6,405	.0223
J6S, TNP	3,145	8,387	.4573
J6S, TNS	4,200	6,405	.1954
TNP, TNS	1,056	9,377	.8231

FIG. 64D

FIG. 64E

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	2082,438	189,313	2,237	,0239	24,605	,900
Résidu	59	4993,532	84,636				

Tableau de moyennes pour TCRBV09

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	32,449	11,856	4,840
CM+S	4	18,668	12,314	6,157
J3P	5	15,347	3,162	1,414
J3S	3	13,712	6,283	3,628
J4P	9	16,677	7,101	2,367
J4S	6	17,918	9,498	3,878
J5P	7	20,567	6,361	2,404
J5S	8	12,019	10,703	3,784
J6P	9	16,190	10,703	3,568
J6S	9	19,402	10,490	3,497
TNP	2	15,419	,537	,380
TNS	3	7,443	3,207	1,852

FIG. 64F

Graphique des interactions pour TCRBV09

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

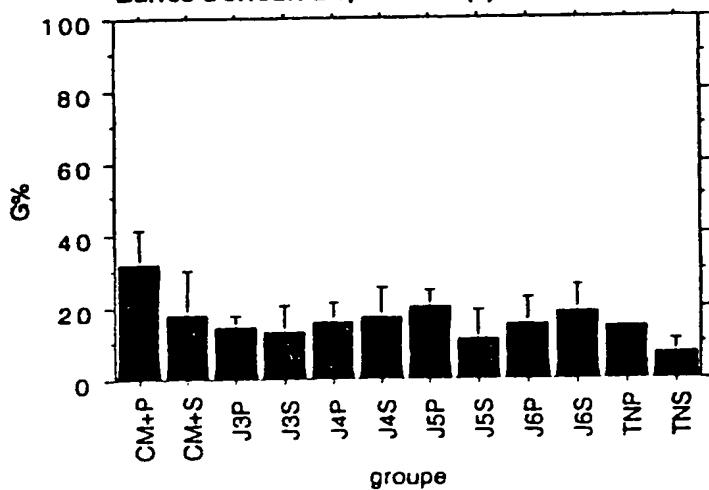


FIG. 64G

	Diff. moy.	Diff. crit.	Valeur p	S
CM+P, CM+S	13,782	11,883	.0238	
CM+P, J3P	17,102	11,147	.0032	S
CM+P, J3S	18,737	13,017	.0056	S
CM+P, J4P	15,773	9,702	.0019	S
CM+P, J4S	14,532	10,828	.0082	S
CM+P, J5P	11,882	10,242	.0237	S
CM+P, J5S	20,431	9,942	.0001	S
CM+P, J6P	16,260	9,702	.0014	S
CM+P, J6S	13,047	9,702	.0093	S
CM+P, TNP	17,030	15,031	.0271	S
CM+P, TNS	25,006	13,017	.0003	S
CM+S, J3P	3,321	12,349	.5926	
CM+S, J3S	4,956	14,060	.4834	
CM+S, J4P	1,991	11,062	.7200	
CM+S, J4S	.750	11,883	.8999	
CM+S, J5P	-1,899	11,538	.7430	
CM+S, J5S	6,649	11,273	.2426	
CM+S, J6P	2,478	11,062	.6556	
CM+S, J6S	-.734	11,062	.8948	
CM+S, TNP	3,248	15,942	.6850	
CM+S, TNS	11,224	14,060	.1155	
J3P, J3S	1,635	13,444	.8086	
J3P, J4P	-1,329	10,268	.7965	
J3P, J4S	-2,570	11,147	.6462	
J3P, J5P	-5,220	10,779	.3385	
J3P, J5S	3,329	10,495	.5281	
J3P, J6P	-.842	10,268	.8702	
J3P, J6S	-4,055	10,268	.4326	
J3P, TNP	-.072	15,402	.9925	
J3P, TNS	7,904	13,444	.2442	
J3S, J4P	-2,965	12,272	.6306	
J3S, J4S	-4,206	13,017	.5205	
J3S, J5P	-6,855	12,703	.2846	
J3S, J5S	1,694	12,463	.7866	
J3S, J6P	-2,478	12,272	.6877	
J3S, J6S	-5,690	12,272	.3573	
J3S, TNP	-1,707	16,805	.8396	
J3S, TNS	6,269	15,031	.4073	
J4P, J4S	-1,241	9,702	.7989	
J4P, J5P	-3,890	9,277	.4048	
J4P, J5S	4,658	8,945	.3017	
J4P, J6P	-.487	8,678	.9110	
J4P, J6S	-2,726	8,678	.5321	
J4P, TNP	1,257	14,391	.8618	
J4P, TNS	9,233	12,272	.1375	
J4S, J5P	-2,649	10,242	.6067	
J4S, J5S	5,899	9,942	.2399	
J4S, J6P	1,728	9,702	.7228	
J4S, J6S	-1,484	9,702	.7806	
J4S, TNP	2,498	15,031	.7406	
J4S, TNS	10,474	13,017	.1127	
J5P, J5S	8,549	9,527	.0777	
J5P, J6P	4,377	9,277	.3489	
J5P, J6S	1,165	9,277	.8025	
J5P, TNP	5,148	14,760	.4880	
J5P, TNS	13,124	12,703	.0431	S
J5S, J6P	-4,171	8,945	.3546	
J5S, J6S	-7,384	8,945	.1039	
J5S, TNP	-3,401	14,553	.6418	
J5S, TNS	4,575	12,463	.4655	
J6P, J6S	-3,213	8,678	.4618	
J6P, TNP	.770	14,391	.9151	
J6P, TNS	8,746	12,272	.1591	
J6S, TNP	3,983	14,391	.5818	
J6S, TNS	11,959	12,272	.0560	
TNP, TNS	7,976	16,805	.3461	

FIG. 64 H

FIG. 65A

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	490,945	44,631	,454	,9251	4,991	,223
Résidu	71	6984,585	98,374				

Tableau de moyennes pour TCRBV10

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	10,175	3,320	1,355
CM+S	7	7,994	3,656	1,382
J3P	5	9,884	9,834	4,398
J3S	5	8,409	7,889	3,528
J4P	9	8,062	7,645	2,548
J4S	9	5,909	1,975	.658
J5P	9	7,336	6,956	2,319
J5S	9	9,596	8,867	2,956
J6P	10	14,088	22,489	7,112
J6S	9	9,281	4,212	1,404
TNP	2	6,434	1,017	.719
TNS	3	3,943	1,407	.812

FIG. 65B

Graphique des interactions pour TCRBV10

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

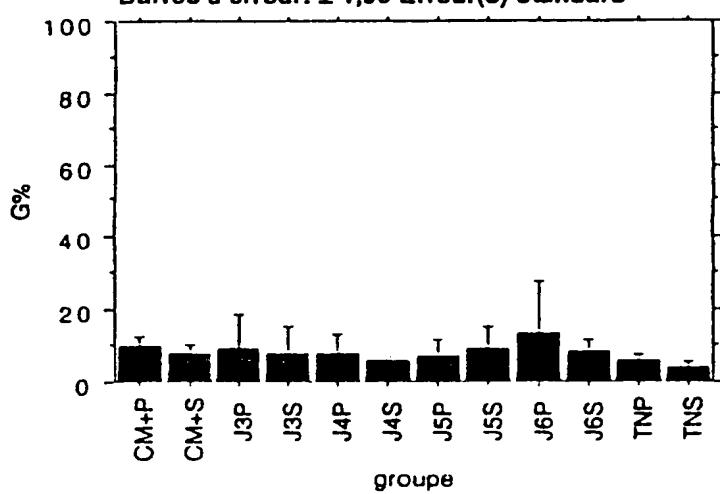


FIG. 65C

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	2,180	11,003	,6939
CM+P, J3P	,291	11,975	,9615
CM+P, J3S	1,786	11,975	,7696
CM+P, J4P	2,113	10,423	,6873
CM+P, J4S	4,268	10,423	,4172
CM+P, J5P	2,838	10,423	,5886
CM+P, J5S	,579	10,423	,9122
CM+P, J6P	-3,913	10,213	,4474
CM+P, J6S	,894	10,423	,8847
CM+P, TNP	3,741	16,148	,6456
CM+P, TNS	6,232	13,984	,3772
CM+S, J3P	-1,890	11,580	,7459
CM+S, J3S	-415	11,580	,9433
CM+S, J4P	-,067	9,967	,9893
CM+S, J4S	2,086	9,967	,8778
CM+S, J5P	,658	9,967	,8958
CM+S, J5S	-1,602	9,967	,7496
CM+S, J6P	-6,093	9,746	,2166
CM+S, J6S	-1,286	9,967	,7977
CM+S, TNP	1,560	15,857	,8450
CM+S, TNS	4,052	13,847	,5557
J3P, J3S	1,475	12,508	,8148
J3P, J4P	1,822	11,031	,7428
J3P, J4S	3,975	11,031	,4748
J3P, J5P	2,548	11,031	,6465
J3P, J5S	,288	11,031	,9586
J3P, J6P	-4,204	10,832	,4416
J3P, J6S	,803	11,031	,9135
J3P, TNP	3,450	16,546	,6789
J3P, TNS	5,841	14,443	,4148
J3S, J4P	,347	11,031	,9501
J3S, J4S	2,500	11,031	,6527
J3S, J5P	1,073	11,031	,8468
J3S, J5S	-1,187	11,031	,8307
J3S, J6P	-5,679	10,832	,2994
J3S, J6S	-,872	11,031	,8752
J3S, TNP	1,975	16,546	,8126
J3S, TNS	4,466	14,443	,5395
J4P, J4S	2,153	9,323	,6466
J4P, J5P	,726	9,323	,8771
J4P, J5S	-1,534	9,323	,7438
J4P, J6P	-6,026	9,087	,1903
J4P, J6S	-1,219	9,323	,7951
J4P, TNP	1,628	15,460	,8343
J4P, TNS	4,119	13,184	,5353
J4S, J5P	-1,427	9,323	,7610
J4S, J5S	-3,687	9,323	,4330
J4S, J6P	-8,179	9,087	,0770
J4S, J6S	-3,372	9,323	,4732
J4S, TNP	-,525	15,460	,9462
J4S, TNS	1,986	13,184	,7671
J5P, J3S	-2,260	9,323	,6304
J5P, J6P	-6,751	9,087	,1429
J5P, J6S	-1,944	9,323	,6788
J5P, TNP	,902	15,460	,9077
J5P, TNS	3,394	13,184	,6094
J5S, J6P	-4,492	9,087	,3277
J5S, J6S	,315	9,323	,9464
J5S, TNP	3,162	15,460	,6847
J5S, TNS	5,653	13,184	,3954
J6P, J6S	4,807	9,087	,2951
J6P, TNP	7,653	15,319	,3225
J6P, TNS	10,145	13,019	,1247
J6S, TNP	2,847	15,460	,7146
J6S, TNS	5,338	13,184	,4222
TNP, TNS	2,492	18,054	,7840

FIG. 65D

FIG.65E

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	417,530	37,957	1,770	,0767	19,473	,806
Résidu	68	1458,032	21,442				

Tableau de moyennes pour TCRBV11

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	16,209	6,803	2,777
CM+S	7	11,705	4,930	1,863
J3P	5	8,778	4,081	1,825
J3S	5	10,993	6,723	3,007
J4P	9	9,435	5,363	1,788
J4S	8	9,870	4,441	1,570
J5P	8	8,500	2,323	,821
J5S	9	10,472	3,326	1,109
J6P	9	13,144	4,194	1,398
J6S	9	11,466	4,765	1,588
TNP	2	7,048	3,828	2,707
TNS	3	6,057	1,005	,580

FIG. 65F

Graphique des interactions pour TCRBV11

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

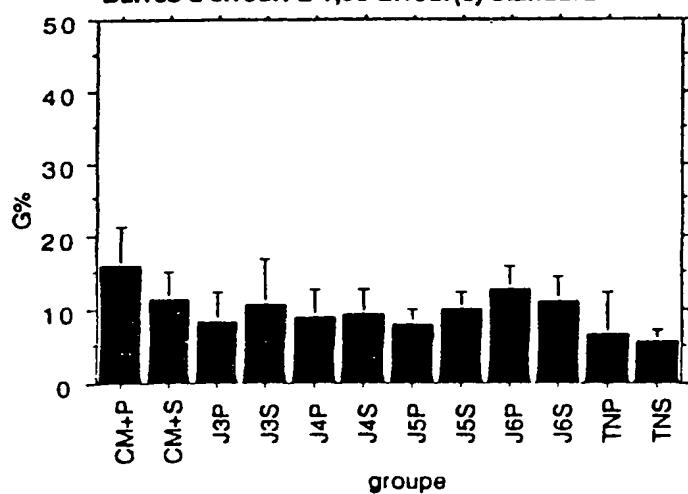


FIG. 65G

	Dift. moy.	Dift. crit.	Valeur p	
CM+P, CM+S	4,504	5,141	.0849	
CM+P, J3P	7,432	5,595	.0100	S
CM+P, J3S	5,216	5,595	.0672	
CM+P, J4P	6,775	4,870	.0071	S
CM+P, J4S	6,339	4,990	.0136	S
CM+P, J5P	7,709	4,890	.0030	S
CM+P, J5S	5,737	4,870	.0216	S
CM+P, J6P	3,068	4,870	.2134	
CM+P, J6S	4,743	4,870	.0561	
CM+P, TNP	9,162	7,544	.0181	S
CM+P, TNS	10,152	6,534	.0028	S
CM+S, J3P	2,927	5,410	.2841	
CM+S, J3S	.712	5,410	.7937	
CM+S, J4P	2,270	4,857	.3340	
CM+S, J4S	1,835	4,782	.4466	
CM+S, J5P	3,205	4,782	.1855	
CM+S, J5S	1,233	4,657	.5990	
CM+S, J6P	-1,439	4,657	.5396	
CM+S, J6S	.239	4,857	.9187	
CM+S, TNP	4,657	7,409	.2140	
CM+S, TNS	5,648	6,376	.0816	
J3P, J3S	-2,216	5,844	.4519	
J3P, J4P	-.657	5,154	.8000	
J3P, J4S	-1,093	5,268	.6802	
J3P, J5P	.278	5,268	.9165	
J3P, J5S	-1,695	5,154	.5139	
J3P, J6P	-4,366	5,154	.0955	
J3P, J6S	-2,688	5,154	.3016	
J3P, TNP	1,730	7,731	.6566	
J3P, TNS	2,720	6,748	.4239	
J3S, J4P	1,559	5,154	.5482	
J3S, J4S	1,123	5,268	.6719	
J3S, J5P	2,493	5,268	.3483	
J3S, J5S	.521	5,154	.8407	
J3S, J6P	-2,150	5,154	.4080	
J3S, J6S	-.473	5,154	.8553	
J3S, TNP	3,946	7,731	.3121	
J3S, TNS	4,936	6,748	.1490	
J4P, J4S	-.436	4,490	.8470	
J4P, J5P	.935	4,490	.6792	
J4P, J5S	-1,038	4,356	.6360	
J4P, J6P	-3,709	4,356	.0938	
J4P, J6S	-2,031	4,356	.3554	
J4P, TNP	2,387	7,223	.5119	
J4P, TNS	3,977	6,160	.2778	
J4S, J5P	1,370	4,620	.5559	
J4S, J5S	-.602	4,490	.7899	
J4S, J6P	-3,273	4,490	.1503	
J4S, J6S	-1,596	4,490	.4807	
J4S, TNP	2,823	7,305	.4433	
J4S, TNS	3,813	6,256	.2280	
J5P, J5S	-1,972	4,490	.3838	
J5P, J6P	-4,644	4,490	.0428	S
J5P, J6S	-2,968	4,490	.1919	
J5P, TNP	1,452	7,305	.6928	
J5P, TNS	2,443	6,256	.4385	
J5S, J6P	-2,671	4,356	.2252	
J5S, J6S	-.994	4,356	.6504	
J5S, TNP	3,425	7,223	.3475	
J5S, TNS	4,415	6,160	.1572	
J6P, J6S	1,678	4,356	.4448	
J6P, TNP	6,096	7,223	.0968	
J6P, TNS	7,087	6,160	.0248	S
J6S, TNP	4,418	7,223	.2265	
J6S, TNS	5,409	6,160	.0843	
TNP, TNS	.990	8,435	.8154	

FIG. 65 H

FIG. 66A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	847,506	77,046	1,734	,0835	19,078	,797
Résidu	70	3109,660	44,424				

Tableau de moyennes pour TCRBV12

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	5	31,373	13,011	5,819
CM+S	7	23,583	6,355	2,402
J3P	5	16,521	4,564	2,041
J3S	5	22,474	7,502	3,355
J4P	10	20,547	4,914	1,554
J4S	8	20,444	3,354	1,186
J5P	9	21,202	7,031	2,344
J5S	10	20,410	3,361	1,063
J6P	8	23,789	7,661	2,709
J6S	9	19,862	4,989	1,663
TNP	2	21,202	1,749	1,237
TNS	4	27,005	12,590	6,295

FIG. 66B

Graphique des interactions pour TCRBV12

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

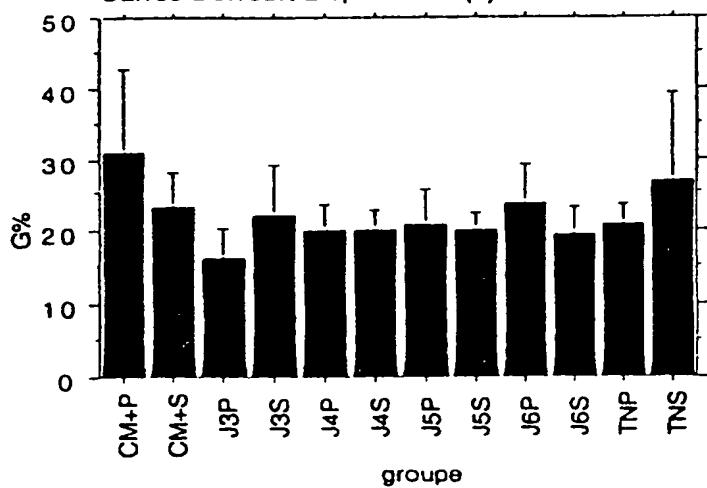


FIG. 66C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	7,790	7,784	,0498	S
CM+P, J3P	14,851	8,407	,0008	S
CM+P, J3S	8,899	8,407	,0383	S
CM+P, J4P	10,825	7,281	,0041	S
CM+P, J4S	10,928	7,578	,0053	S
CM+P, J5P	10,170	7,415	,0079	S
CM+P, J5S	10,963	7,281	,0037	S
CM+P, J6P	7,584	7,578	,0498	S
CM+P, J6S	11,511	7,415	,0028	S
CM+P, TNP	10,171	11,122	,0724	
CM+P, TNS	4,368	8,917	,3320	
CM+S, J3P	7,062	7,784	,0747	
CM+S, J3S	1,109	7,784	,7770	
CM+S, J4P	3,036	6,551	,3586	
CM+S, J4S	3,139	6,880	,3680	
CM+S, J5P	2,381	6,699	,4808	
CM+S, J5S	3,173	6,551	,3374	
CM+S, J6P	-,206	6,880	,9525	
CM+S, J6S	3,721	6,699	,2718	
CM+S, TNP	2,381	10,658	,8573	
CM+S, TNS	-3,422	8,332	,4155	
J3P, J3S	-5,952	8,407	,1624	
J3P, J4P	-4,026	7,281	,2739	
J3P, J4S	-3,923	7,578	,3054	
J3P, J5P	-4,681	7,415	,2122	
J3P, J5S	-3,889	7,281	,2904	
J3P, J6P	-7,268	7,578	,0599	
J3P, J6S	-3,341	7,415	,3719	
J3P, TNP	-4,680	11,122	,4041	
J3P, TNS	-10,484	8,917	,0219	S
J3S, J4P	1,926	7,281	,5994	
J3S, J4S	2,029	7,578	,5950	
J3S, J5P	1,271	7,415	,7334	
J3S, J5S	2,063	7,281	,5737	
J3S, J6P	-1,316	7,578	,7302	
J3S, J6S	2,611	7,415	,4847	
J3S, TNP	1,272	11,122	,8203	
J3S, TNS	-4,532	8,917	,3143	
J4P, J4S	,103	6,305	,9741	
J4P, J5P	-,655	6,108	,8313	
J4P, J5S	,137	5,945	,9634	
J4P, J6P	-3,242	6,305	,3087	
J4P, J6S	,685	6,108	,8236	
J4P, TNP	-,654	10,297	,8995	
J4P, TNS	-6,458	7,864	,1060	
J4S, J5P	-,758	6,459	,8156	
J4S, J5S	,034	6,305	,9914	
J4S, J6P	-3,345	6,647	,3190	
J4S, J6S	,582	6,459	,8579	
J4S, TNP	-,757	10,509	,8861	
J4S, TNS	-6,561	8,140	,1125	
J5P, J5S	,792	6,108	,7966	
J5P, J6P	-2,587	6,459	,4271	
J5P, J6S	1,340	6,266	,6710	
J5P, TNP	,001	10,392	>,9999	
J5P, TNS	-5,803	7,988	,1519	
J5S, J6P	-3,379	6,305	,2888	
J5S, J6S	,548	6,108	,8585	
J5S, TNP	-,792	10,297	,8786	
J5S, TNS	-6,595	7,864	,0989	
J6P, J6S	3,927	6,459	,2294	
J6P, TNP	2,587	10,609	,6249	
J6P, TNS	-3,216	8,140	,4334	
J6S, TNP	-1,340	10,392	,7979	
J6S, TNS	-7,143	7,988	,0789	
TNP, TNS	-6,803	11,512	,3182	

FIG. 66D

FIG. 66E

	ddl	Somme des carres	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	569,770	51,797	1,658	,1019	18,243	,773
Résidu	69	2155,053	31,233				

Tableau de moyennes pour TCRBV13

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	16,053	8,177	3,338
CM+S	7	9,454	2,239	,846
J3P	5	12,093	11,473	5,131
J3S	4	7,463	2,623	1,312
J4P	9	8,545	3,606	1,202
J4S	9	8,837	4,734	1,578
J5P	9	12,000	6,015	2,005
J5S	8	11,132	5,742	2,030
J6P	8	10,075	3,850	1,361
J6S	10	9,057	3,207	1,014
TNP	2	16,242	15,161	10,720
TNS	4	4,103	2,133	1,067

FIG. 66F

Graphique des interactions pour TCRBV13

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

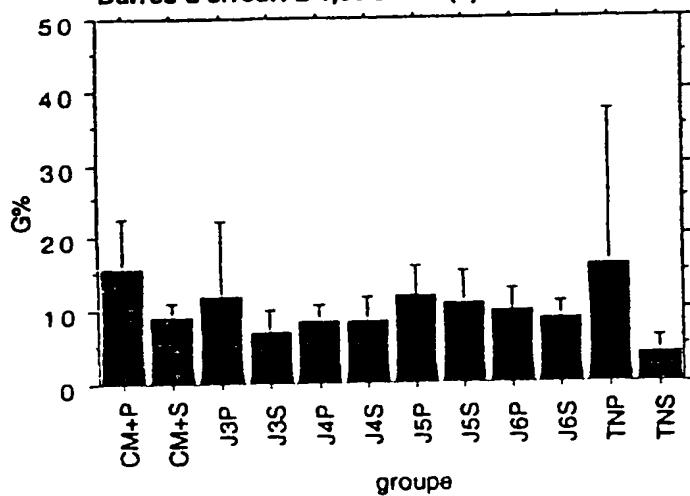


FIG. 66G

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	6,600	6,203	,0374	S
CM+P, J3P	3,960	6,751	,2459	
CM+P, J3S	8,590	7,197	,0200	S
CM+P, J4P	7,508	5,876	,0130	S
CM+P, J4S	7,216	5,876	,0168	S
CM+P, J5P	4,053	5,876	,1733	
CM+P, J5S	4,921	6,021	,1076	
CM+P, J6P	5,978	6,021	,0516	
CM+P, J6S	6,996	5,757	,0180	S
CM+P, TNP	-,189	9,103	,9670	
CM+P, TNS	11,951	7,197	,0015	S
CM+S, J3P	-2,640	6,528	,4227	
CM+S, J3S	1,991	6,988	,5717	
CM+S, J4P	,909	5,619	,7479	
CM+S, J4S	,616	5,619	,8274	
CM+S, J5P	-2,547	5,619	,3690	
CM+S, J5S	-1,679	5,770	,5835	
CM+S, J6P	-,621	5,770	,8305	
CM+S, J6S	,396	5,494	,8860	
CM+S, TNP	-6,789	8,939	,1343	
CM+S, TNS	5,351	6,988	,1312	
J3P, J3S	4,630	7,479	,2210	
J3P, J4P	3,548	6,219	,2589	
J3P, J4S	3,256	6,219	,2999	
J3P, J5P	,093	6,219	,9763	
J3P, J5S	,981	6,356	,7639	
J3P, J6P	2,018	6,356	,5286	
J3P, J6S	3,036	6,107	,3247	
J3P, TNP	-4,149	9,328	,3779	
J3P, TNS	7,991	7,479	,0366	S
J3S, J4P	-1,082	6,700	,7483	
J3S, J4S	-1,374	6,700	,6837	
J3S, J5P	-4,537	6,700	,1811	
J3S, J5S	-3,669	6,827	,2874	
J3S, J6P	-2,612	6,827	,4479	
J3S, J6S	-1,594	6,596	,6312	
J3S, TNP	-8,779	9,655	,0740	
J3S, TNS	3,360	7,884	,3981	
J4P, J4S	-,292	5,258	,9120	
J4P, J5P	-3,456	5,256	,1940	
J4P, J5S	-2,588	5,417	,3440	
J4P, J6P	-1,530	5,417	,5749	
J4P, J6S	-,512	5,123	,8425	
J4P, TNP	-7,698	8,718	,0825	
J4P, TNS	4,442	6,700	,1903	
J4S, J5P	-3,163	5,256	,2340	
J4S, J5S	-2,295	5,417	,4009	
J4S, J6P	-1,238	5,417	,6499	
J4S, J6S	-,220	5,123	,9320	
J4S, TNP	-7,405	8,716	,0946	
J4S, TNS	4,735	6,700	,1631	
J5P, J5S	,868	5,417	,7502	
J5P, J6P	1,925	5,417	,4807	
J5P, J6S	2,943	5,123	,2557	
J5P, TNP	-4,242	8,716	,3349	
J5P, TNS	7,898	6,700	,0215	S
J5S, J6P	1,057	5,574	,7063	
J5S, J6S	2,075	5,288	,4354	
J5S, TNP	-5,110	8,814	,2514	
J5S, TNS	7,030	6,827	,0438	S
J6P, J6S	1,018	5,288	,7022	
J6P, TNP	-6,167	8,814	,1672	
J6P, TNS	5,973	6,827	,0854	
J6S, TNP	-7,185	8,636	,1015	
J6S, TNS	4,955	6,596	,1386	
TNP, TNS	12,140	9,655	,0145	S

FIG. 66 H

FIG. 67A

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	231,107	21,010	1,322	,2319	14,537	,647
Résidu	68	1081,036	15,898				

Tableau de moyennes pour TCRBV14

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	10,551	5,149	2,102
CM+S	7	7,043	1,990	,752
J3P	5	4,884	1,269	,567
J3S	4	4,908	2,004	1,002
J4P	9	6,371	3,227	1,076
J4S	9	5,163	2,562	,854
J5P	8	6,045	1,246	,440
J5S	9	5,140	1,601	,534
J6P	9	8,980	8,696	2,899
J6S	8	7,619	4,177	1,477
TNP	2	5,030	,384	,271
TNS	4	5,486	1,990	,995

FIG. 67B

Graphique des interactions pour TCRBV14

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

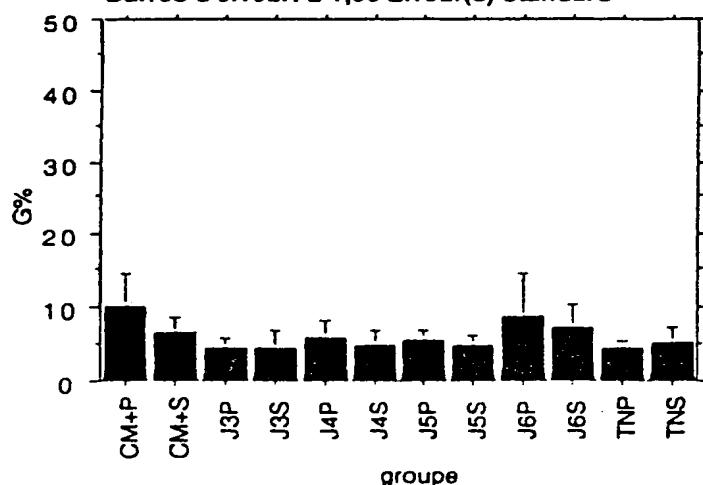


FIG. 67C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	3,508	4,426	,1184	S
CM+P, J3P	5,668	4,818	,0218	S
CM+P, J3S	5,843	5,136	,0318	S
CM+P, J4P	4,180	4,193	,0507	
CM+P, J5P	5,388	4,193	,0126	S
CM+P, J5S	4,508	4,297	,0401	S
CM+P, J6P	5,411	4,193	,0122	S
CM+P, J6S	1,571	4,193	,4573	
CM+P, TNP	2,932	4,297	,1778	
CM+P, TNS	5,521	6,496	,0945	
CM+S, J3P	5,066	5,136	,0631	
CM+S, J3S	2,160	4,659	,3582	
CM+S, J4P	2,135	4,987	,3959	
CM+S, J4S	,673	4,010	,7389	
CM+S, J5P	1,880	4,010	,3527	
CM+S, J5S	,998	4,118	,8300	
CM+S, J5S	1,903	4,010	,3469	
CM+S, J6P	-1,937	4,010	,3385	
CM+S, J6S	-,576	4,118	,7810	
CM+S, TNP	2,013	6,379	,5310	
CM+S, TNS	1,558	4,987	,5351	
J3P, J3S	-,025	5,337	,9926	
J3P, J4P	-1,487	4,438	,5059	
J3P, J4S	-,280	4,438	,9003	
J3P, J5P	-1,161	4,536	,8111	
J3P, J5S	-,256	4,438	,9085	
J3P, J6P	-4,097	4,438	,0698	
J3P, J6S	-2,738	4,536	,2329	
J3P, TNP	-,147	6,657	,9651	
J3P, TNS	-,602	5,337	,8226	
J3S, J4P	-1,462	4,781	,5436	
J3S, J4S	-,255	4,781	,9156	
J3S, J5P	-1,137	4,872	,6431	
J3S, J5S	-,232	4,781	,9233	
J3S, J6P	-4,072	4,781	,0938	
J3S, J6S	-2,711	4,872	,2708	
J3S, TNP	-,122	6,890	,9720	
J3S, TNS	-,577	5,626	,8384	
J4P, J4S	1,208	3,751	,5227	
J4P, J5P	,326	3,866	,8669	
J4P, J5S	1,231	3,751	,5148	
J4P, J6P	-2,609	3,751	,1696	
J4P, J6S	-1,248	3,866	,5215	
J4P, TNP	1,341	6,220	,6685	
J4P, TNS	,885	4,781	,7129	
J4S, J5P	-,882	3,866	,6505	
J4S, J5S	,023	3,751	,9902	
J4S, J6P	-3,817	3,751	,0462	S
J4S, J6S	-2,456	3,866	,2092	
J4S, TNP	,133	6,220	,9661	
J4S, TNS	-,322	4,781	,8934	
J5P, J5S	,905	3,866	,6420	
J5P, J6P	-2,935	3,866	,1344	
J5P, J6S	-1,574	3,978	,4324	
J5P, TNP	1,015	6,290	,7485	
J5P, TNS	,559	4,872	,8194	
J5S, J6P	-3,840	3,751	,0449	S
J5S, J6S	-2,479	3,866	,2050	
J5S, TNP	,110	6,220	,9720	
J5S, TNS	-,345	4,781	,8858	
J6P, J6S	1,361	3,866	,4848	
J6P, TNP	3,950	6,220	,2094	
J6P, TNS	3,495	4,781	,1493	
J6S, TNP	2,589	6,290	,4143	
J6S, TNS	2,134	4,872	,3852	
TNP, TNS	-,455	6,890	,8955	

FIG. 67D

FIG. 67E

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	475,725	43,248	2,120	,0299	23,320	,888
Résidu	69	1407,598	20,400				

Tableau de moyennes pour TCRBV15

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	12,587	5,913	2,414
CM+S	7	6,161	3,839	1,451
J3P	5	6,724	2,971	1,328
J3S	4	3,964	.921	.460
J4P	10	5,431	1,557	.492
J4S	9	5,088	2,335	.778
J5P	7	5,730	1,647	.622
J5S	10	5,626	1,858	.587
J6P	7	9,920	8,566	3,238
J6S	10	9,571	7,765	2,456
TNP	2	4,499	1,572	1,112
TNS	4	4,683	1,664	.832

FIG. 67F

Graphique des interactions pour TCRBV15

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

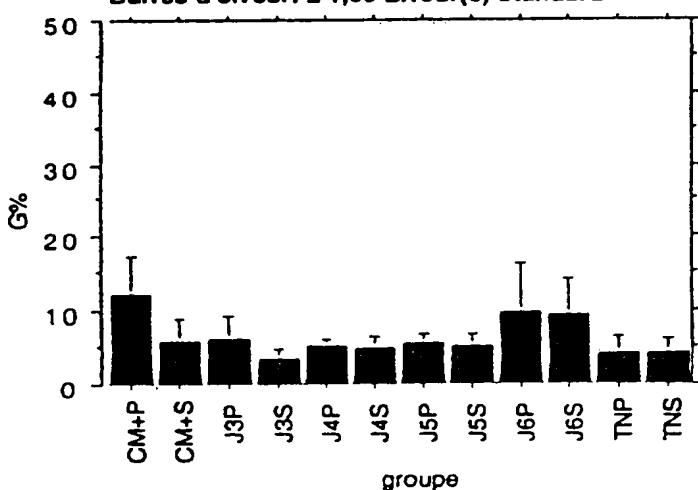


FIG. 67G

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	6,426	5,013	,0128	S
CM+P, J3P	5,863	5,456	,0356	S
CM+P, J3S	8,623	5,816	,0042	S
CM+P, J4P	7,156	4,653	,0031	S
CM+P, J4S	7,498	4,749	,0024	S
CM+P, J5P	6,857	5,013	,0081	S
CM+P, J5S	8,961	4,653	,0039	S
CM+P, J6P	2,667	5,013	,2922	
CM+P, J6S	3,016	4,653	,2003	
CM+P, TNP	6,088	7,357	,0317	S
CM+P, TNS	7,904	5,816	,0085	S
CM+S, J3P	-,562	5,278	,8322	
CM+S, J3S	2,198	5,648	,4403	
CM+S, J4P	,730	4,440	,7439	
CM+S, J4S	1,073	4,541	,6388	
CM+S, J5P	,431	4,816	,8587	
CM+S, J5S	,535	4,440	,8107	
CM+S, J6P	-3,758	4,816	,1241	
CM+S, J6S	-3,409	4,440	,1302	
CM+S, TNP	1,862	7,224	,6477	
CM+S, TNS	1,478	5,648	,6033	
J3P, J3S	2,760	6,044	,3655	
J3P, J4P	1,292	4,935	,6030	
J3P, J4S	1,635	5,026	,5184	
J3P, J5P	,994	5,276	,7082	
J3P, J5S	1,098	4,935	,6587	
J3P, J6P	-3,196	5,276	,2310	
J3P, J6S	-2,847	4,935	,2538	
J3P, TNP	2,225	7,539	,5580	
J3P, TNS	2,041	6,044	,5029	
J3S, J4S	-1,468	5,331	,5846	
J3S, J4S	-1,125	5,415	,8799	
J3S, J5P	-1,766	5,648	,5348	
J3S, J5S	-1,862	5,331	,5359	
J3S, J6P	-5,956	5,648	,0380	S
J3S, J6S	-5,607	5,331	,0395	S
J3S, TNP	-5,355	7,803	,8915	
J3S, TNS	-7,119	6,371	,8224	
J4P, J4S	,343	4,140	,8692	
J4P, J5P	-,299	4,440	,8937	
J4P, J5S	-,195	4,030	,9234	
J4P, J6P	-4,488	4,440	,0476	S
J4P, J6S	-4,139	4,030	,0442	S
J4P, TNP	,932	6,979	,7907	
J4P, TNS	,748	5,331	,7803	
J4S, J5P	-,642	4,541	,7789	
J4S, J5S	-,538	4,140	,7963	
J4S, J6P	-4,831	4,541	,0374	S
J4S, J6S	-4,482	4,140	,0343	S
J4S, TNP	,589	7,044	,8880	
J4S, TNS	,405	5,415	,8818	
J5P, J5S	,104	4,440	,9630	
J5P, J6P	-4,190	4,816	,0871	
J5P, J6S	-3,841	4,440	,0888	
J5P, TNP	1,231	7,224	,7350	
J5P, TNS	1,047	5,648	,7127	
J5S, J6P	-4,293	4,440	,0579	
J5S, J6S	-3,944	4,030	,0549	
J5S, TNP	1,127	6,979	,7483	
J5S, TNS	,943	5,331	,7252	
J6P, J6S	,348	4,440	,8759	
J6P, TNP	5,420	7,224	,1390	
J6P, TNS	5,236	5,648	,0686	
J6S, TNP	5,071	6,979	,1517	
J6S, TNS	4,887	5,331	,0717	
TNP, TNS	-,184	7,803	,9626	

FIG. 67 H

FIG. 68A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	1108,367	100,761	2,419	,0129	26,609	,934
Résidu	71	2957,431	41,654				

Tableau de moyennes pour TCRBV16

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	6	17,638	6,182	2,524
CM+S	7	9,511	1,933	,731
J3P	5	6,405	2,491	1,114
J3S	4	6,253	1,812	,906
J4P	9	6,565	1,382	,461
J4S	9	5,835	1,449	,483
J5P	9	8,828	4,243	1,414
J5S	10	11,179	11,924	3,771
J6P	9	13,766	7,046	2,349
J6S	10	13,173	9,708	3,070
TNP	2	5,439	1,203	,851
TNS	3	4,811	1,861	1,075

FIG. 68B

Graphique des interactions pour TCRBV16

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

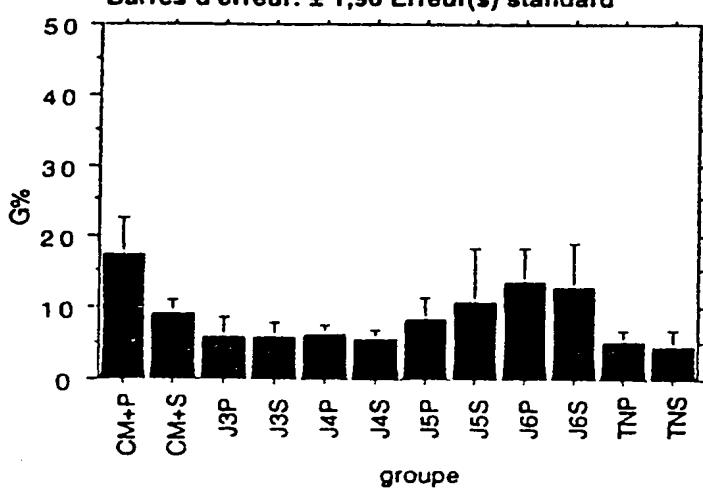


FIG. 68C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	8,127	7,160	,0267	S
CM+P, J3P	11,232	7,792	,0053	S
CM+P, J3S	11,384	8,307	,0079	S
CM+P, J4P	11,073	6,782	,0017	S
CM+P, J4S	11,803	6,782	,0009	S
CM+P, J5P	8,810	6,782	,0116	S
CM+P, J5S	6,459	6,645	,0568	
CM+P, J6P	3,872	6,782	,2589	
CM+P, J6S	4,465	6,645	,1846	
CM+P, TNP	12,199	10,507	,0235	S
CM+P, TNS	12,826	9,100	,0064	S
CM+S, J3P	3,105	7,535	,4140	
CM+S, J3S	3,257	8,066	,4234	
CM+S, J4P	2,946	6,485	,3682	
CM+S, J4S	3,676	6,485	,2622	
CM+S, J5P	,683	6,485	,8343	
CM+S, J5S	-1,669	6,342	,6015	
CM+S, J6P	-4,256	6,485	,1950	
CM+S, J6S	-3,662	6,342	,2534	
CM+S, TNP	4,072	10,318	,4340	
CM+S, TNS	4,699	8,880	,2949	
J3P, J3S	,152	8,833	,9721	
J3P, J4P	-,160	7,178	,9647	
J3P, J4S	,571	7,178	,8745	
J3P, J5P	-2,422	7,178	,5032	
J3P, J6S	-4,774	7,049	,1812	
J3P, J6P	-7,361	7,178	,0446	S
J3P, J6S	-6,768	7,049	,0596	
J3P, TNP	,966	10,767	,8585	
J3P, TNS	1,594	9,398	,7362	
J3S, J4P	-,312	7,733	,9362	
J3S, J4S	,419	7,733	,9143	
J3S, J5P	-2,574	7,733	,5090	
J3S, J5S	-4,926	7,613	,2012	
J3S, J6P	-7,513	7,733	,0567	
J3S, J6S	-6,920	7,613	,0742	
J3S, TNP	,814	11,145	,8846	
J3S, TNS	1,442	9,829	,7708	
J4P, J4S	,730	6,066	,8110	
J4P, J5P	-2,263	6,066	,4595	
J4P, J5S	-4,614	5,913	,1242	
J4P, J6P	-7,201	6,066	,0207	S
J4P, J6S	-6,608	5,913	,0290	S
J4P, TNP	1,126	10,060	,8240	
J4P, TNS	1,754	8,579	,6848	
J4S, J5P	-2,993	6,066	,3286	
J4S, J5S	-5,345	5,913	,0757	
J4S, J6P	-7,932	6,066	,0111	S
J4S, J6S	-7,338	5,913	,0157	S
J4S, TNP	,396	10,060	,9377	
J4S, TNS	1,023	8,579	,8127	
J5P, J5S	-2,351	5,913	,4304	
J5P, J6P	-4,938	6,066	,1090	
J5P, J6S	-4,345	5,913	,1473	
J5P, TNP	3,389	10,060	,5040	
J5P, TNS	4,016	8,579	,3538	
J5S, J6P	-2,587	5,913	,3659	
J5S, J6S	-1,994	5,755	,4920	
J5S, TNP	6,740	9,968	,2547	
J5S, TNS	6,368	8,471	,1384	
J6P, J6S	,593	5,913	,8420	
J6P, TNP	8,327	10,060	,1033	
J6P, TNS	8,855	8,579	,0410	
J6S, TNP	7,734	9,968	,1263	
J6S, TNS	8,361	8,471	,0530	
TNP, TNS	,628	11,748	,9156	

FIG. 68D

FIG. 68E

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	1366,839	124,258	2,439	,0125	26,832	,935
Résidu	68	3463,904	50,940				

Tableau de moyennes pour TCRBV18

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	5	20,923	14,298	6,394
CM+S	7	12,460	4,456	1,684
J3P	4	10,425	4,718	2,359
J3S	4	11,167	3,982	1,991
J4P	8	9,540	3,210	1,135
J4S	9	8,739	3,488	1,163
J5P	9	12,342	4,375	1,458
J5S	10	13,509	9,823	3,106
J6P	8	20,235	9,202	3,253
J6S	10	17,530	7,806	2,468
TNP	2	8,387	2,214	1,566
TNS	4	8,319	5,022	2,511

FIG. 68F

Graphique des interactions pour TCRBV18

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

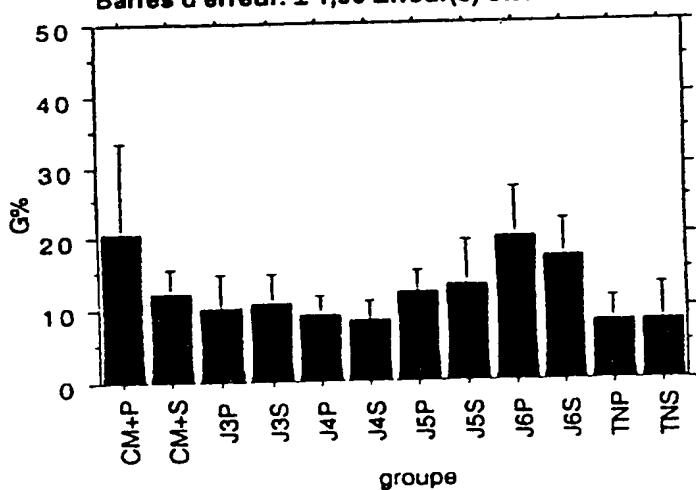


FIG. 68G

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	8,463	8,339	.0468	S
CM+P, J3P	10,498	9,554	.0318	S
CM+P, J3S	9,756	9,554	.0455	S
CM+P, J4P	11,383	8,119	.0067	S
CM+P, J4S	12,184	7,944	.0032	S
CM+P, J5P	8,582	7,944	.0346	S
CM+P, J5S	7,414	7,801	.0621	S
CM+P, J6P	,689	8,119	.8661	
CM+P, J6S	3,393	7,801	.3884	
CM+P, TNP	12,536	11,916	.0395	S
CM+P, TNS	12,604	9,554	.0105	S
CM+S, J3P	2,035	8,927	.6506	
CM+S, J3S	1,293	8,927	.7734	
CM+S, J4P	2,920	7,371	.4320	
CM+S, J4S	3,721	7,177	.3045	
CM+S, J5P	,119	7,177	.9738	
CM+S, J5S	-1,049	7,019	.7665	
CM+S, J6P	-7,775	7,371	.0390	S
CM+S, J6S	-5,070	7,019	.1541	
CM+S, TNP	4,073	11,419	.4790	
CM+S, TNS	4,141	8,927	.3579	
J3P, J3S	-,742	10,071	.8836	
J3P, J4P	,884	8,721	.8402	
J3P, J4S	1,686	8,558	.6955	
J3P, J5P	-1,917	8,558	.6564	
J3P, J5S	-3,084	8,426	.4677	
J3P, J6P	-9,810	8,721	.0281	S
J3P, J6S	-7,105	8,426	.0970	
J3P, TNP	2,038	12,334	.7426	
J3P, TNS	2,106	10,071	.6778	
J3S, J4P	1,626	8,721	.7110	
J3S, J4S	2,428	8,558	.5732	
J3S, J5P	-1,175	8,558	.7850	
J3S, J5S	-2,342	8,426	.5810	
J3S, J6P	-9,068	8,721	.0418	S
J3S, J6S	-6,363	8,426	.1365	
J3S, TNP	2,780	12,334	.6543	
J3S, TNS	2,848	10,071	.5744	
J4P, J4S	,801	6,920	.8180	
J4P, J5P	-2,801	6,920	.4221	
J4P, J5S	-3,968	6,756	.2452	
J4P, J6P	-10,694	7,121	.0038	S
J4P, J6S	-7,989	6,756	.0212	
J4P, TNP	1,153	11,259	.8386	
J4P, TNS	1,221	8,721	.7807	
J4S, J5P	-3,602	6,714	.2881	
J4S, J5S	-4,770	6,544	.1504	
J4S, J6P	-11,496	6,920	.0015	S
J4S, J6S	-8,791	6,544	.0092	S
J4S, TNP	,352	11,134	.9498	
J4S, TNS	,420	8,558	.9223	
J5P, J5S	-1,167	6,544	.7230	
J5P, J6P	-7,893	6,920	.0260	S
J5P, J6S	-5,188	6,544	.1183	
J5P, TNP	3,955	11,134	.4809	
J5P, TNS	4,023	8,558	.3516	
J5S, J6P	-6,726	6,756	.0510	
J5S, J6S	-4,021	6,369	.2121	
J5S, TNP	5,122	11,032	.3575	
J5S, TNS	5,190	8,426	.2233	
J6P, J6S	2,705	6,756	.4271	
J6P, TNP	11,848	11,259	.0395	S
J6P, TNS	11,916	8,721	.0081	S
J6S, TNP	9,143	11,032	.1028	
J6S, TNS	9,211	8,426	.0326	S
TNP, TNS	,068	12,334	.9913	

FIG. 68 H

FIG. 69A

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	11	1340,545	121,868	2,791	,0044	30,703	,968
Résidu	72	3143,624	43,661				

Tableau de moyennes pour TCRBV20

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	5	27,772	16,719	7,477
CM+S	7	11,353	4,473	1,690
J3P	5	10,625	,982	,439
J3S	4	11,679	3,970	1,985
J4P	10	13,862	5,854	1,851
J4S	9	11,847	3,898	1,299
J5P	9	10,533	4,189	1,396
J5S	10	11,711	5,365	1,697
J6P	9	15,138	7,611	2,537
J6S	10	13,643	7,756	2,453
TNP	2	11,871	2,021	1,429
TNS	4	9,130	2,304	1,152

FIG. 69B

Graphique des interactions pour TCRBV20

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

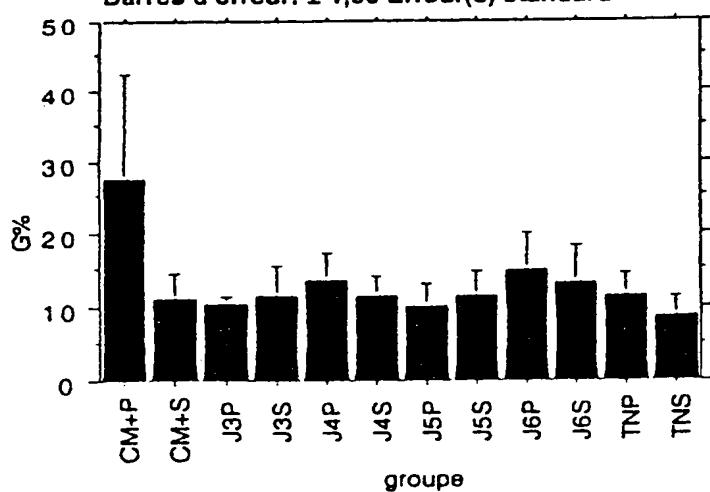


FIG. 69C

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	16,419	7,713	<.0001
CM+P, J3P	17,147	8,331	,0001
CM+P, J3S	16,092	8,836	,0005
CM+P, J4P	13,910	7,215	,0003
CM+P, J4S	15,924	7,347	<.0001
CM+P, J5P	17,238	7,347	<.0001
CM+P, J5S	16,061	7,215	<.0001
CM+P, J6P	12,834	7,347	,0010
CM+P, J6S	14,128	7,215	,0002
CM+P, TNP	15,901	11,021	,0053
CM+P, TNS	16,642	8,836	<.0001
CM+S, J3P	,728	7,713	,8513
CM+S, J3S	-,328	8,256	,9374
CM+S, J4P	-2,509	8,491	,4436
CM+S, J4S	-,495	8,638	,8823
CM+S, J5P	,819	8,638	,8063
CM+S, J5S	-,358	6,491	,9128
CM+S, J6P	-3,785	6,638	,2594
CM+S, J6S	-2,291	6,491	,4840
CM+S, TNP	-,518	10,561	,9224
CM+S, TNS	2,223	8,256	,5931
J3P, J3S	-1,054	8,836	,8126
J3P, J4P	-3,237	7,215	,3741
J3P, J4S	-1,223	7,347	,7410
J3P, J5P	,091	7,347	,9803
J3P, J5S	-1,086	7,215	,7650
J3P, J6P	-4,513	7,347	,2247
J3P, J6S	-3,019	7,215	,4070
J3P, TNP	-1,246	11,021	,8223
J3P, TNS	1,495	8,836	,7369
J3S, J4P	-2,183	7,793	,5783
J3S, J4S	-,188	7,915	,8663
J3S, J5P	1,146	7,915	,7738
J3S, J5S	-,032	7,793	,9936
J3S, J6P	-3,459	7,915	,3866
J3S, J6S	-1,964	7,793	,6169
J3S, TNP	-,192	11,407	,9734
J3S, TNS	2,550	9,314	,5870
J4P, J4S	2,014	6,052	,5091
J4P, J5P	3,328	6,052	,2766
J4P, J5S	2,151	5,891	,4690
J4P, J6P	-1,276	6,052	,6755
J4P, J6S	,218	5,891	,9413
J4P, TNP	1,991	10,203	,6984
J4P, TNS	4,732	7,793	,2300
J4S, J5P	1,314	6,209	,8744
J4S, J5S	,137	6,052	,9642
J4S, J6P	-3,290	6,209	,2943
J4S, J6S	-1,796	6,052	,5560
J4S, TNP	-,023	10,297	,9964
J4S, TNS	2,718	7,915	,4959
J5P, J5S	-1,177	6,052	,6993
J5P, J6P	-4,804	6,209	,1437
J5P, J6S	-3,110	6,052	,3091
J5P, TNP	-1,337	10,297	,7984
J5P, TNS	1,404	7,915	,7247
J5S, J6P	-3,427	6,052	,2627
J5S, J6S	-1,933	5,891	,5152
J5S, TNP	-,160	10,203	,9751
J5S, TNS	2,581	7,793	,5112
J6P, J6S	1,494	6,052	,8241
J6P, TNP	3,267	10,297	,5291
J6P, TNS	6,008	7,915	,1346
J6S, TNP	1,773	10,203	,7301
J6S, TNS	4,514	7,793	,2520
TNP, TNS	2,741	11,407	,6334

FIG. 69D

FIG. 70A

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	432,969	86,594	2,011	,0866	10,054	,640
Résidu	76	3272,846	43,064				

Tableau de moyennes pour TCRBV01

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	13	11,087	8,348	2,315
CM+S	17	11,091	8,232	1,996
JSP	9	7,802	9,117	3,039
JSS	10	6,450	1,743	.551
TNP	16	5,478	1,746	.436
TNS	17	6,828	6,198	1,503

FIG. 70B

Graphique des interactions pour TCRBV01

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

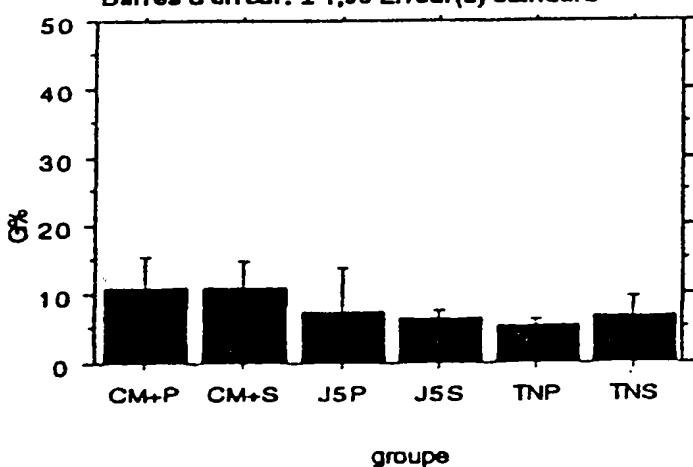


FIG. 70C

FIG. 70D

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	-,003	4,815	,9989
CM+P, JSP	3,285	5,668	,2520
CM+P, JSS	4,637	5,498	,0971
CM+P, TNP	5,609	4,880	,0248
CM+P, TNS	4,259	4,815	,0822
CM+S, JSP	3,288	5,388	,2279
CM+S, JSS	4,641	5,209	,0800
CM+S, TNP	5,613	4,552	,0164
CM+S, TNS	4,262	4,483	,0821
JSP, JSS	1,352	6,005	,6550
JSP, TNP	2,324	5,448	,3979
JSP, TNS	,974	5,388	,7197
JSS, TNP	,972	5,269	,7143
JSS, TNS	-,378	5,209	,8854
TNP, TNS	-1,350	4,552	,5565

FIG. 70E

Tableau ANOVA pour TCRBV02

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	2280,845	452,169	12,348	<,0001	61,745	1,000
Résidu	78	2856,039	36,816				

Tableau de moyennes pour TCRBV02

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	16	18,682	11,485	2,871
CM+S	17	12,334	4,730	1,147
JSP	9	8,816	3,816	1,272
JSS	10	8,401	4,782	1,512
TNP	16	5,498	2,944	.736
TNS	16	4,234	2,115	.529

FIG. 70F

Courbe des interactions pour TCRBV02

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

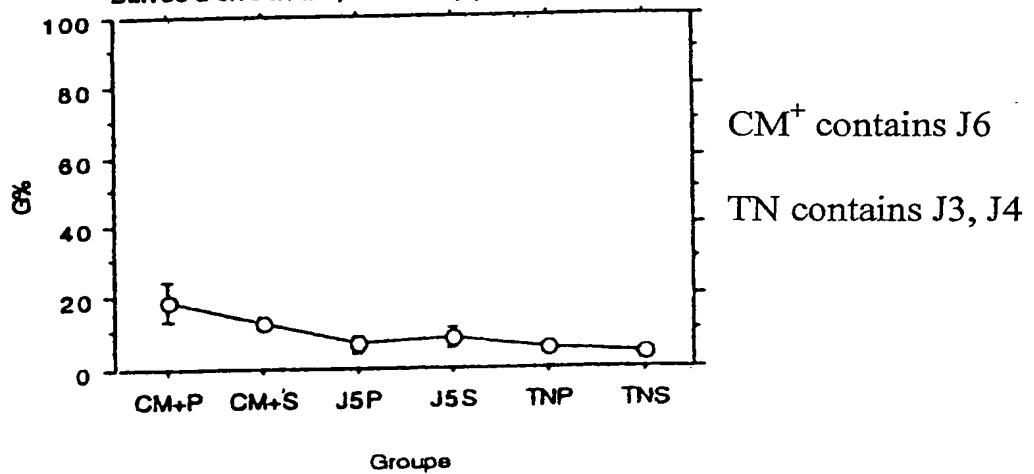


FIG. 70G

Test PLSD de Fisher pour TCRBV02

Effet : Groupe

Niveau de significativité : 5 %

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	6,348	4,196	.0035	S
CM+P, J5P	11,866	5,020	<.0001	S
CM+P, J5S	10,282	4,856	<.0001	S
CM+P, TNP	13,184	4,259	<.0001	S
CM+P, TNS	14,449	4,259	<.0001	S
CM+S, J5P	5,518	4,966	.0299	S
CM+S, J5S	3,933	4,801	.1069	
CM+S, TNP	6,838	4,196	.0017	S
CM+S, TNS	8,100	4,196	.0002	S
J5P, J5S	-1,585	5,535	.5703	
J5P, TNP	1,318	5,020	.6027	
J5P, TNS	2,582	5,020	.3080	
J5S, TNP	2,903	4,856	.2377	
J5S, TNS	4,167	4,856	.0916	
TNP, TNS	1,264	4,259	.5562	

FIG. 70 H

FIG. 71A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	1527,689	305,538	9,429	<,0001	47,145	1,000
Résidu	78	2527,492	32,404				

Tableau de moyennes pour TCRBV03

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	15	15,663	6,016	1,553
CM+S	17	13,392	7,788	1,889
JSP	8	5,793	1,245	,440
JSS	10	10,189	5,355	1,693
TNP	17	6,590	6,854	1,662
TNS	17	4,402	1,366	,331

FIG. 71B

Courbe des interactions pour TCRBV03

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

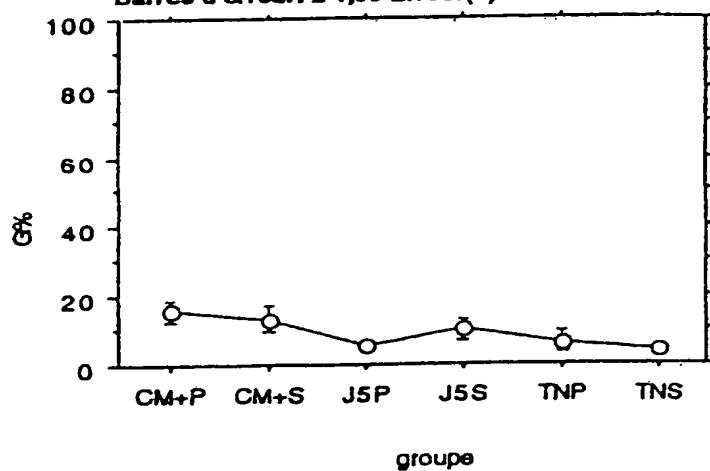


FIG. 71C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	2,271	4,015	,2635	
CM+P, J5P	9,870	4,961	,0002	S
CM+P, J5S	5,474	4,627	,0210	S
CM+P, TNP	9,073	4,015	<.0001	S
CM+P, TNS	11,261	4,015	<.0001	S
CM+S, J5P	7,589	4,859	,0028	S
CM+S, J5S	3,203	4,516	,1620	
CM+S, TNP	6,802	3,887	,0008	S
CM+S, TNS	8,990	3,887	<.0001	S
J5P, J5S	-4,396	5,376	,1076	
J5P, TNP	-,797	4,859	,7448	
J5P, TNS	1,391	4,859	,5703	
J5S, TNP	3,599	4,516	,1167	
J5S, TNS	5,787	4,516	,0127	S
TNP, TNS	2,188	3,887	,2658	

FIG. 71D

FIG. 71E

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	390,352	78,070	1,752	,1328	8,762	.569
Résidu	77	3430,317	44,550				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	14	11,824	9,605	2,567
CM+S	17	7,556	3,093	,750
JSP	9	10,018	10,982	3,861
JSS	10	5,395	2,813	,921
TNP	17	8,235	7,874	1,910
TNS	16	5,528	1,724	,431

FIG. 71F

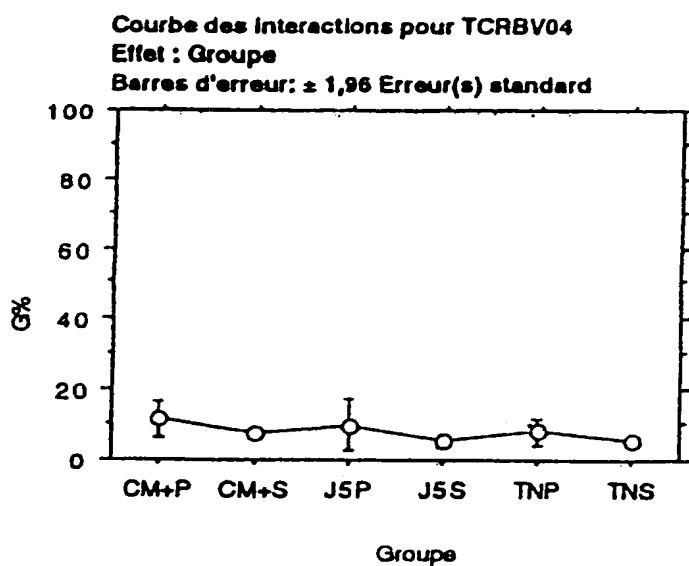


FIG. 71G

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	4,068	4,797	,0953
CM+P, JSP	1,608	5,678	,5744
CM+P, JSS	6,229	5,503	,0270
CM+P, TNP	3,389	4,797	,1635
CM+P, TNS	6,096	4,864	,0147
CM+S, JSP	-2,460	5,479	,3741
CM+S, JSS	2,161	5,297	,4191
CM+S, TNP	-,679	4,559	,7675
CM+S, TNS	2,028	4,629	,3858
JSP, JSS	4,621	6,107	,1360
JSP, TNP	1,781	5,479	,5195
JSP, TNS	4,488	5,538	,1107
JSS, TNP	-2,840	5,297	,2890
JSS, TNS	-,133	5,358	,9607
TNP, TNS	2,707	4,629	,2478

FIG. 71 H

FIG. 72A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	1177,396	235,479	3,026	,0162	15,129	,840
Résidu	65	5058,617	77,825				

FIG. 72B

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	14	22,742	8,379	2,239
CM+S	15	17,817	8,119	2,096
J5P	7	20,393	9,875	3,733
J5S	8	15,429	8,348	2,952
TNP	13	18,467	12,720	3,528
TNS	14	10,498	4,002	1,070

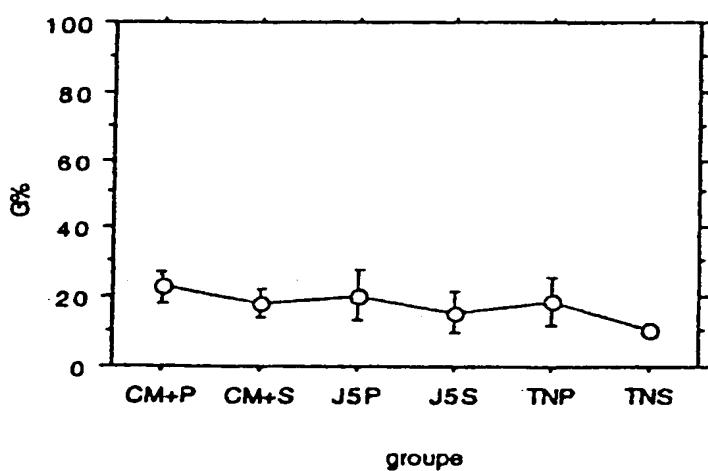


FIG. 72C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	4,925	6,547	,1379	
CM+P, J5P	2,349	8,156	,5672	
CM+P, J5S	7,312	7,809	,0660	
CM+P, TNP	4,275	6,786	,2128	
CM+P, TNS	12,244	6,659	,0005	S
CM+S, J5P	-2,576	8,085	,5258	
CM+S, J5S	2,388	7,713	,5385	
CM+S, TNP	-,649	6,676	,8488	
CM+S, TNS	7,319	6,547	,0290	S
J5P, J5S	4,964	8,118	,2810	
J5P, TNP	1,927	8,260	,6429	
J5P, TNS	9,895	8,156	,0182	S
J5S, TNP	-3,037	7,917	,4464	
J5S, TNS	4,931	7,809	,2117	S
TNP, TNS	7,968	6,786	,0221	

FIG. 72D

FIG. 72E

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	916,180	183,236	7,464	<.0001	37,318	,999
Résidu	74	1816,741	24,551				

FIG. 72F

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	13	16,559	7,514	2,084
CM+S	17	9,926	3,585	,869
J5P	8	17,091	3,750	1,326
J5S	10	8,415	6,726	2,127
TNP	15	11,815	5,086	1,313
TNS	17	8,117	2,031	,492

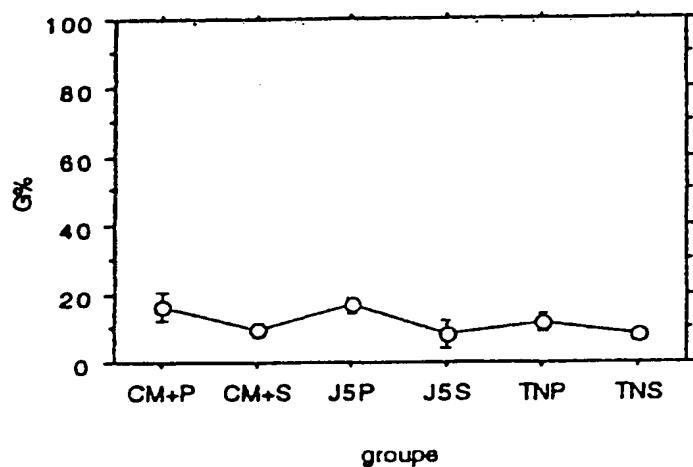


FIG. 72G

FIG. 72H

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	6,633	3,637	,0005	S
CM+P, J5P	-,532	4,436	,8117	
CM+P, J5S	8,144	4,153	,0002	S
CM+P, TNP	4,745	3,741	,0136	S
CM+P, TNS	8,442	3,637	<,0001	S
CM+S, J5P	-7,166	4,233	,0012	S
CM+S, J5S	1,511	3,935	,4466	
CM+S, TNP	-1,889	3,497	,2854	
CM+S, TNS	1,808	3,386	,2907	
J5P, J5S	8,677	4,583	,0004	S
J5P, TNP	5,277	4,322	,0174	S
J5P, TNS	8,974	4,233	<,0001	S
J5S, TNP	-3,400	4,031	,0970	
J5S, TNS	,298	3,935	,8806	
TNP, TNS	3,697	3,497	,0386	S

FIG. 73A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	788,066	157,613	2,447	,0409	12,237	.745
Résidu	79	5087,612	64,400				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	15	17,007	8,620	2,226
CM+S	17	13,682	9,336	2,264
JSP	9	7,467	2,436	,812
JSS	9	10,375	8,168	2,723
TNP	17	9,357	6,546	1,588
TNS	18	10,441	9,029	2,128

FIG. 73B

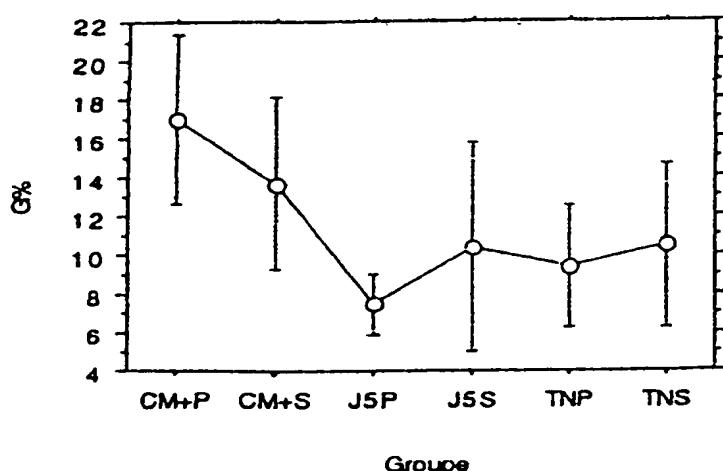


FIG. 73C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	3,325	5,658	,2457	
CM+P, J5P	9,539	8,735	,0061	S
CM+P, J5S	6,631	6,735	,0535	
CM+P, TNP	7,650	5,658	,0087	S
CM+P, TNS	6,566	5,584	,0218	S
CM+S, J5P	6,215	6,585	,0640	
CM+S, J5S	3,307	6,585	,3208	
CM+S, TNP	4,325	5,479	,1201	
CM+S, TNS	3,241	5,402	,2360	
J5P, J5S	-2,908	7,530	,4444	
J5P, TNP	-1,890	6,585	,5694	
J5P, TNS	-2,974	6,521	,3668	
J5S, TNP	1,018	6,585	,7590	
J5S, TNS	-,066	6,521	,9841	
TNP, TNS	-1,084	5,402	,6907	

FIG. 73D

FIG. 73E

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	1142,901	228,580	3,361	,0084	16,806	,889
Résidu	79	5372,547	68,007				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	15	19,250	11,734	3,030
CM+S	17	13,065	8,253	2,002
JSP	9	7,781	3,973	1,324
JSS	10	11,235	7,477	2,365
TNP	16	8,817	5,986	1,496
TNS	18	11,242	8,360	1,971

FIG. 73F

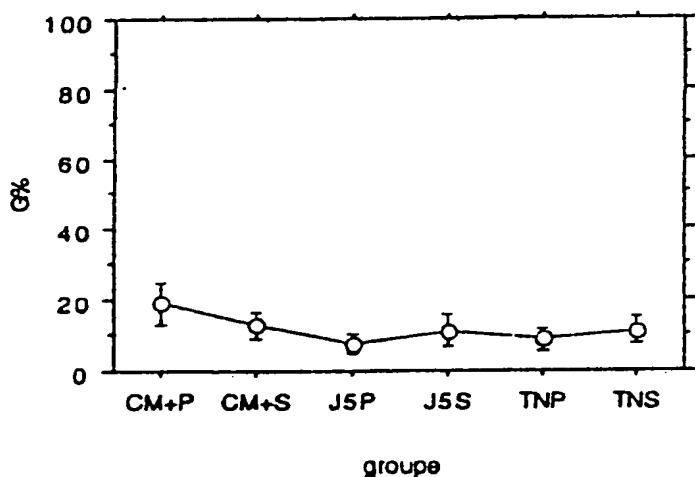


FIG. 73G

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	6,186	5,815	,0374	S
CM+P, J5P	11,469	6,921	,0015	S
CM+P, J5S	8,015	6,701	,0197	S
CM+P, TNP	10,433	5,899	,0007	S
CM+P, TNS	8,008	5,739	,0068	S
CM+S, J5P	5,283	6,767	,1242	
CM+S, J5S	1,829	6,542	,5794	
CM+S, TNP	4,247	5,717	,1432	
CM+S, TNS	1,822	5,551	,5154	
J5P, J5S	-3,454	7,542	,3648	
J5P, TNP	-1,036	6,839	,7639	
J5P, TNS	-3,461	6,701	,3071	
J5S, TNP	2,418	6,817	,4691	
J5S, TNS	-,007	6,474	,9982	
TNP, TNS	-2,425	5,840	,3946	

FIG. 73H

FIG. 74A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	366,810	73,382	5,005	,0005	25,027	,983
Résidu	79	1157,847	14,656				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	14	10,344	4,444	1,158
CM+S	17	10,640	6,391	1,550
J5P	9	6,969	1,829	,543
J5S	10	6,622	2,787	,881
TNP	17	6,681	1,623	,394
TNS	18	5,469	2,592	,811

FIG. 74B

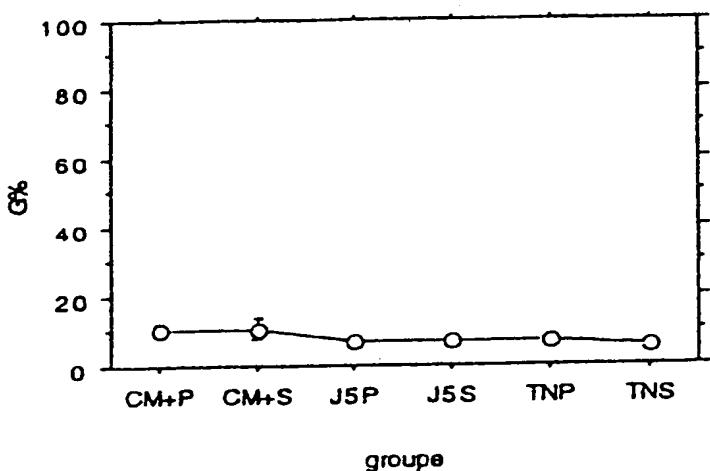


FIG. 74C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	.297	2,750	.8306	S
CM+P, J5P	3,375	3,258	.0424	S
CM+P, J5S	3,722	3,155	.0214	S
CM+P, TNP	3,663	2,750	.0087	S
CM+P, TNS	4,875	2,715	.0006	S
CM+S, J5P	3,671	3,141	.0226	S
CM+S, J5S	4,018	3,037	.0102	S
CM+S, TNP	3,959	2,614	.0035	S
CM+S, TNS	5,172	2,577	.0001	S
J5P, J5S	.347	3,501	.8442	
J5P, TNP	.288	3,141	.8558	
J5P, TNS	1,500	3,111	.3400	
J5S, TNP	-.059	3,037	.9693	
J5S, TNS	1,154	3,005	.4471	
TNP, TNS	1,213	2,577	.3519	

FIG. 74D

FIG. 74E

Tableau ANOVA pour TCRBV08.2

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	150,431	30,086	1,097	,3688	5,485	,364
Résidu	78	2139,073	27,424				

Tableau de moyennes pour TCRBV08.2

Effet : Groupe

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	14	9,588	4,674	1,249
CM+S	17	10,574	7,927	1,923
J5P	8	7,913	2,982	1,054
J5S	10	7,878	4,199	1,328
TNP	17	7,001	3,136	.760
TNS	18	7,644	5,286	1,241

FIG. 74F

Graphique des interactions pour TCRBV08.2

Effet : Groupe

Barres d'erreur: $\pm 1,96$ Erreur(s) standard

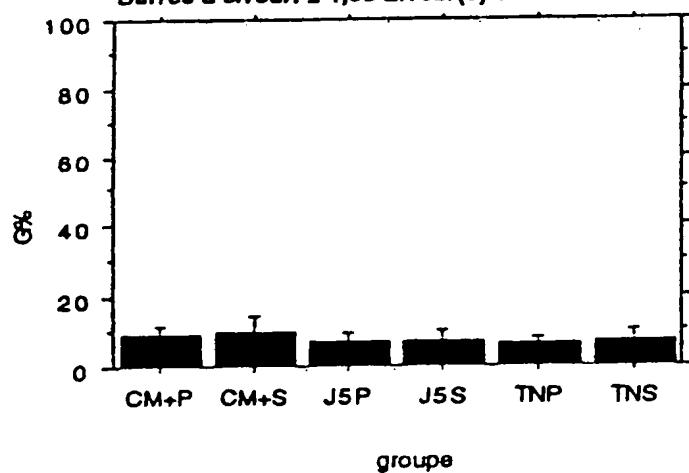


FIG. 74G

Test PLSD de Fisher pour TCRBV08.2

Effet : Groupe

Niveau de significativité : 5 %

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	-,989	3,763	,6023
CM+P, JSP	1,673	4,621	,4732
CM+P, JSS	1,907	4,317	,3817
CM+P, TNP	2,585	3,783	,1754
CM+P, TNS	1,942	3,715	,3013
CM+S, JSP	2,662	4,470	,2394
CM+S, JSS	2,896	4,155	,1682
CM+S, TNP	3,573	3,576	,0502
CM+S, TNS	2,931	3,526	,1020
JSP, JSS	,234	4,945	,9250
JSP, TNP	,912	4,470	,6858
JSP, TNS	,269	4,430	,8041
JSS, TNP	,677	4,155	,7464
JSS, TNS	,034	4,112	,9867
TNP, TNS	-,643	3,526	,7178

FIG. 74H

FIG. 75A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	495,165	99,033	3,518	,0064	17,592	,906
Résidu	79	2223,823	28,147				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	16	9,855	10,116	2,529
CM+S	17	8,560	5,555	1,347
J5P	8	6,072	2,450	,866
J5S	10	3,777	1,722	,545
TNP	17	4,949	2,433	,590
TNS	17	3,743	1,405	,341

FIG. 75B

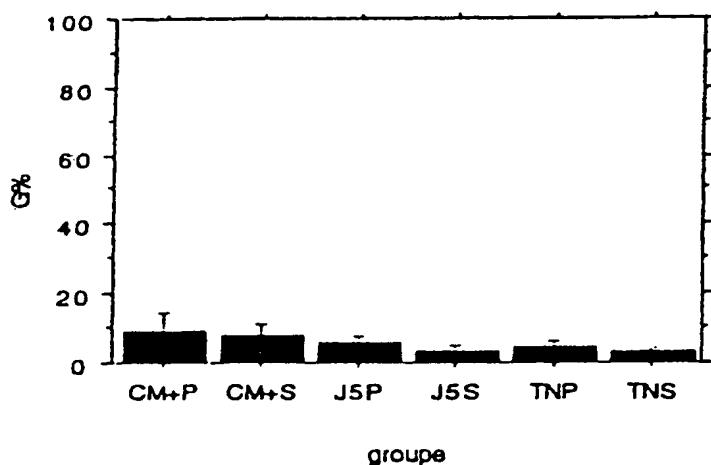


FIG. 75C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	1,295	3,678	,4854	S
CM+P, J5P	3,783	4,573	,1036	S
CM+P, J5S	6,078	4,257	,0057	S
CM+P, TNP	4,906	3,678	,0096	S
CM+P, TNS	8,111	3,678	,0014	S
CM+S, J5P	2,487	4,528	,2775	S
CM+S, J5S	4,782	4,208	,0265	S
CM+S, TNP	3,611	3,622	,0507	S
CM+S, TNS	4,816	3,622	,0098	S
J5P, J5S	2,295	5,009	,3646	
J5P, TNP	1,123	4,528	,8227	
J5P, TNS	2,329	4,528	,3091	
J5S, TNP	-1,171	4,208	,5811	
J5S, TNS	,034	4,208	,9873	
TNP, TNS	1,205	3,622	,5087	

FIG. 75D

FIG. 75E

Tableau ANOVA pour TCRBV09

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	901,856	180,371	1,899	,1066	9,495	,603
Résidu	65	6174,114	94,986				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	15	22,693	13,552	3,499
CM+S	13	19,176	10,554	2,927
J5P	7	20,567	6,361	2,404
JSS	8	12,019	10,703	3,784
TNP	16	16,104	5,480	1,370
TNS	12	14,248	8,373	2,417

FIG. 75F

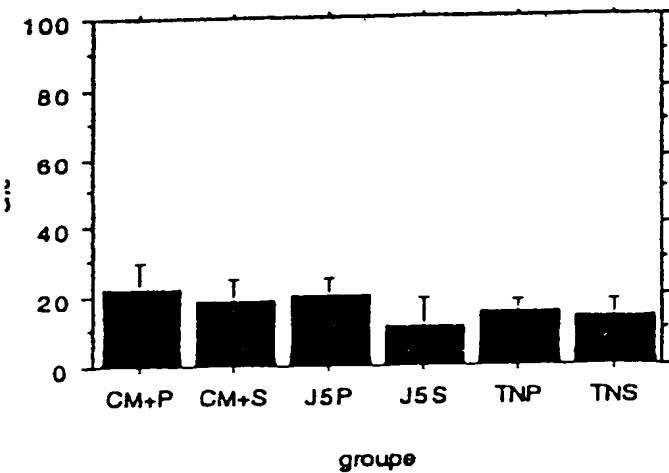


FIG. 75G

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	3,517	7,376	,3444
CM+P, J5P	2,126	8,910	,6352
CM+P, J5S	10,675	8,521	,0149
CM+P, TNP	6,589	6,995	,0644
CM+P, TNS	8,448	7,538	,0287
CM+S, J5P	-1,391	8,125	,7618
CM+S, J5S	7,158	8,746	,1070
CM+S, TNP	3,072	7,268	,4017
CM+S, TNS	4,928	7,792	,2110
J5P, J5S	8,549	10,074	,0949
J5P, TNP	4,463	8,821	,3160
J5P, TNS	6,319	9,257	,1775
J5S, TNP	-4,085	8,428	,3366
J5S, TNS	-2,229	8,884	,6180
TNP, TNS	1,856	7,433	,6196

FIG. 75H

FIG. 76A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	366,970	73,394	,795	,5568	3,975	,268
Résidu	77	7108,560	92,319				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	16	12,620	17,634	4,408
CM+S	16	8,718	3,904	,976
J5P	9	7,336	6,956	2,319
J5S	9	9,596	8,867	2,956
TNP	16	8,428	7,638	1,910
TNS	17	6,297	4,503	1,092

FIG. 76B

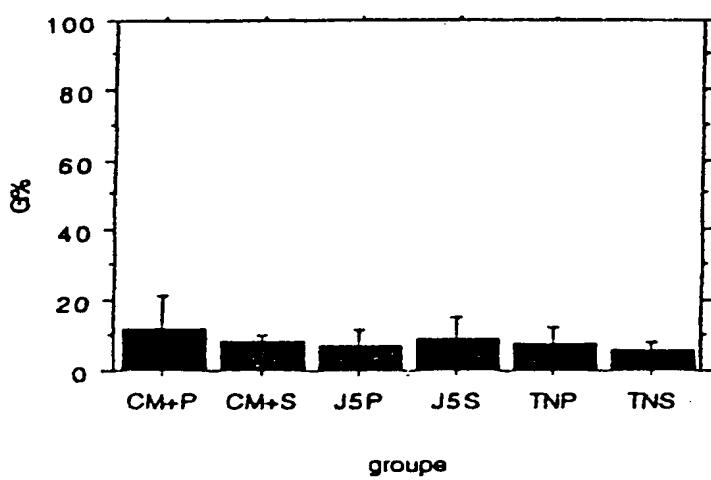


FIG. 76C

	Dif. moy.	Dif. crit.	Valeur p
CM+P, CM+S	3,902	6,764	,2542
CM+P, JSP	5,284	7,972	,1908
CM+P, JSS	3,024	7,972	,4523
CM+P, TNP	4,183	6,764	,2208
CM+P, TNS	6,323	6,664	,0626
CM+S, JSP	1,382	7,972	,7309
CM+S, JSS	-,878	7,972	,8270
CM+S, TNP	,290	6,764	,9322
CM+S, TNS	2,421	6,664	,4717
JSP, JSS	-2,260	9,019	,6193
JSP, TNP	-1,092	7,972	,7859
JSP, TNS	1,039	7,887	,7938
JSS, TNP	1,168	7,972	,7712
JSS, TNS	3,299	7,887	,4075
TNP, TNS	2,131	6,664	,5263

FIG. 76D

FIG. 76E

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupes	5	326,172	65,234	3,118	,0132	15,578	,857
Résidu	74	1549,389	20,938				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	15	14,370	5,385	1,390
CM+S	16	11,571	4,874	1,168
JSP	8	8,500	2,323	.821
JSS	9	10,472	3,326	1,109
TNP	16	8,831	4,625	1,156
TNS	16	9,506	4,958	1,239

FIG. 76F

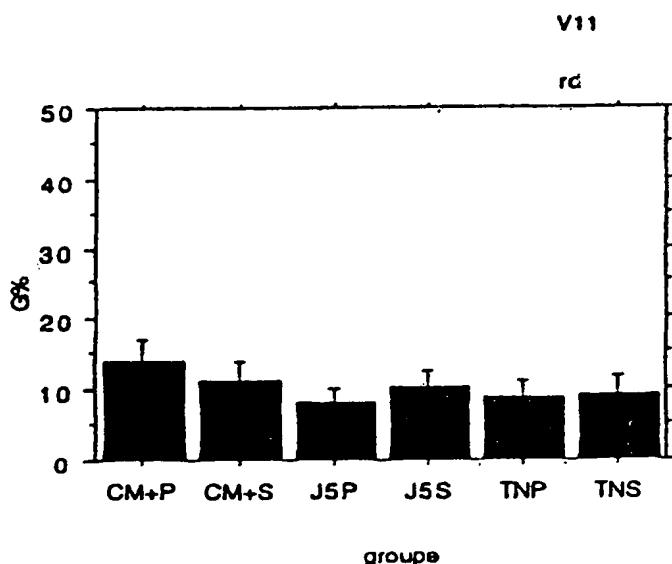


FIG. 76G

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	2,799	3,277	,0929	S
CM+P, JSP	5,870	3,992	,0045	S
CM+P, JSS	3,898	3,844	,0470	S
CM+P, TNP	5,439	3,277	,0015	S
CM+P, TNS	4,864	3,277	,0042	S
CM+S, JSP	3,071	3,948	,1255	
CM+S, JSS	1,098	3,799	,5663	
CM+S, TNP	2,640	3,223	,1070	
CM+S, TNS	2,064	3,223	,2059	
JSP, JSS	-1,972	4,430	,3779	
JSP, TNP	-,431	3,948	,8284	
JSP, TNS	-1,006	3,948	,6130	
JSS, TNP	1,541	3,799	,4214	
JSS, TNS	,966	3,799	,6139	
TNP, TNS	-,575	3,223	,7231	

FIG. 76H

FIG. 77A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	440,110	88,022	1,902	,1038	9,510	,810
Résidu	76	3517,057	46,277				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	13	26,706	10,267	2,848
CM+S	16	21,490	5,750	1,438
JSP	9	21,202	7,031	2,344
JSS	10	20,410	3,361	1,063
TNP	17	19,440	4,775	1,158
TNS	17	22,585	7,476	1,813

FIG. 77B

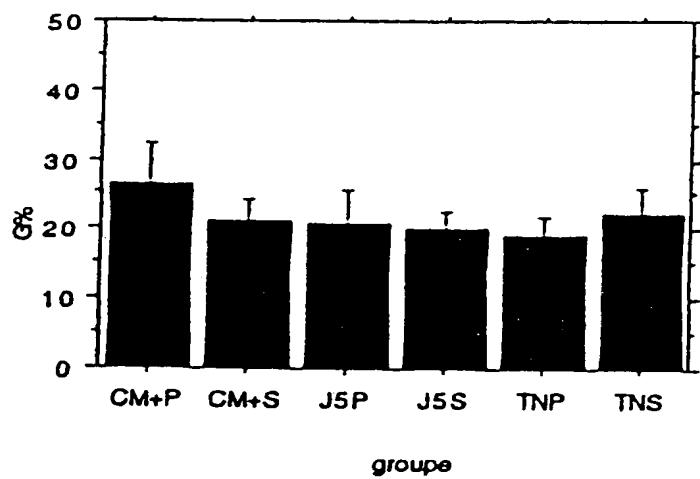


FIG. 77C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	5,216	5,059	,0435	S
CM+P, JSP	5,504	5,875	,0659	
CM+P, JSS	6,296	5,899	,0308	S
CM+P, TNP	7,286	4,992	,0049	
CM+P, TNS	4,121	4,992	,1043	S
CM+S, JSP	,288	5,645	,9194	
CM+S, JSS	1,060	5,462	,6948	
CM+S, TNP	2,050	4,719	,3887	
CM+S, TNS	-1,095	4,719	,6454	
JSP, JSS	,792	6,225	,8006	
JSP, TNP	1,762	5,585	,5316	
JSP, TNS	-1,383	5,585	,6234	
JSS, TNP	,970	5,400	,7215	
JSS, TNS	-2,175	5,400	,4249	
TNP, TNS	-3,145	4,647	,1817	

FIG. 77D

FIG. 77E

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	271,666	54,333	1,661	,1545	8,306	,541
Résidu	75	2453,157	32,709				

FIG. 77F

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	14	12,637	6,567	1,755
CM+S	17	9,220	2,776	,673
JSP	9	12,000	6,015	2,005
JSS	8	11,132	5,742	2,030
TNP	16	10,616	8,055	2,014
TNS	17	7,400	4,151	1,007

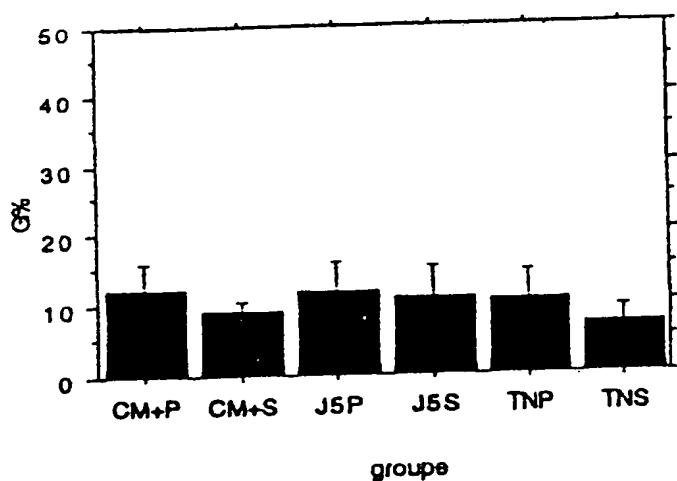


FIG. 77G

	Diff. moy.	Diff. crit.	Valeur p
CM+P, CM+S	3,417	4,112	.1020
CM+P, JSP	,637	4,868	.7951
CM+P, JSS	1,505	5,049	.5545
CM+P, TNP	2,021	4,169	.3373
CM+P, TNS	5,237	4,112	.0132
CM+S, JSP	-2,780	4,697	.2421
CM+S, JSS	-1,912	4,885	.4380
CM+S, TNP	-1,396	3,968	.4858
CM+S, TNS	1,821	3,908	.3563
JSP, JSS	,868	5,536	.7557
JSP, TNP	1,384	4,747	.5630
JSP, TNS	4,601	4,697	.0547
JSS, TNP	,517	4,933	.8353
JSS, TNS	3,733	4,885	.1321
TNP, TNS	3,216	3,968	.1106

FIG. 77H

FIG. 78A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	212,057	42,411	2,853	,0207	14,285	,818
Résidu	74	1100,086	14,866				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	15	9,609	7,302	1,885
CM+S	15	7,351	3,241	,837
J5P	8	6,045	1,246	,440
J5S	9	5,140	1,601	,534
TNP	16	5,739	2,558	,639
TNS	17	5,179	2,195	,532

FIG. 78B

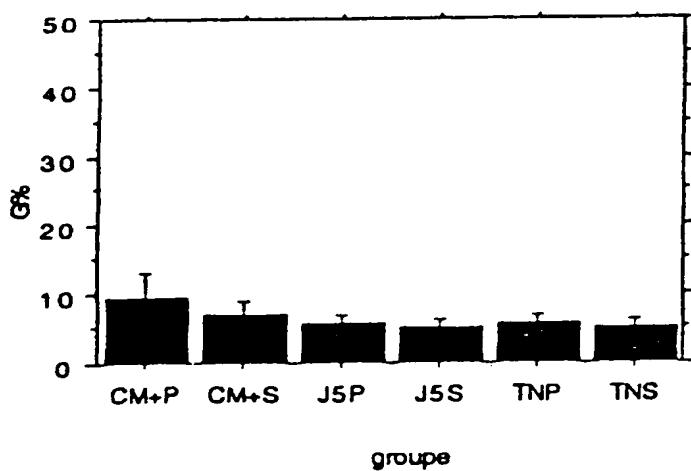


FIG. 78C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	2,258	2,805	,1130	
CM+P, J5P	3,564	3,363	,0381	S
CM+P, J5S	4,468	3,239	,0075	S
CM+P, TNP	3,870	2,761	,0066	S
CM+P, TNS	4,429	2,722	,0018	S
CM+S, J5P	1,306	3,363	,4417	
CM+S, J5S	2,210	3,239	,1781	
CM+S, TNP	1,812	2,761	,2484	
CM+S, TNS	2,171	2,722	,1161	
J5P, J5S	,905	3,733	,6305	
J5P, TNP	,306	3,327	,8549	
J5P, TNS	,866	3,294	,6020	
J5S, TNP	-,598	3,201	,7106	
J5S, TNS	-,039	3,167	,9805	
TNP, TNS	,559	2,676	,6782	

FIG. 78D

FIG. 78E

	ddi	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	392,519	78,504	3,949	,0031	19,747	,839
Résidu	75	1490,804	19,877				

FIG. 78F

	Nombre	Moyenne	Dev. std.	Err. std.
CM+P	13	11,151	7,292	2,022
CM+S	17	8,167	6,514	1,580
J5P	7	5,730	1,647	,622
J5S	10	5,626	1,858	,587
TNP	17	5,702	2,068	,502
TNS	17	4,728	1,904	,462

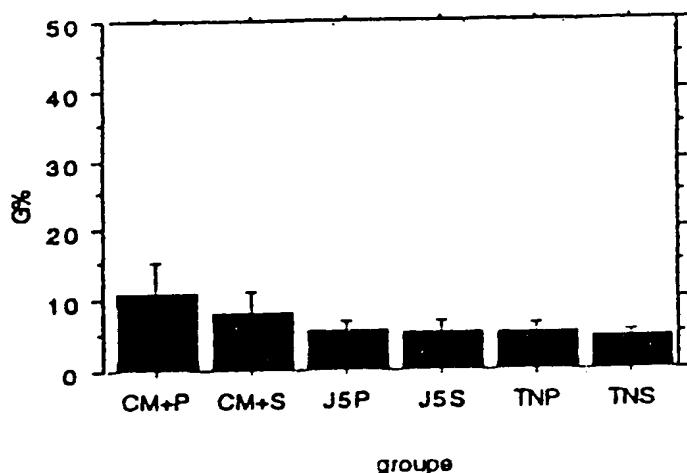


FIG. 78G

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	2,984	3,272	,0733	
CM+P, JSP	5,421	4,164	,0114	S
CM+P, JSS	5,524	3,738	,0043	S
CM+P, TNP	5,449	3,272	,0014	S
CM+P, TNS	6,422	3,272	,0002	S
CM+S, JSP	2,437	3,989	,2274	
CM+S, JSS	2,541	3,540	,1569	
CM+S, TNP	2,465	3,046	,1112	
CM+S, TNS	3,438	3,046	,0275	S
JSP, JSS	,104	4,377	,9625	
JSP, TNP	,028	3,989	,9888	
JSP, TNS	1,001	3,989	,6184	
JSS, TNP	-,076	3,540	,9662	
JSS, TNS	,898	3,540	,6148	
TNP, TNS	,973	3,046	,5264	

FIG. 78H

FIG. 79A

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	993,378	198,676	4,979	,0005	24,896	,982
Résidu	77	3072,420	39,902				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	15	15,315	6,773	1,749
CM+S	17	11,665	7,807	1,845
JSP	9	8,828	4,243	1,414
JSS	10	11,179	11,924	3,771
TNP	16	8,374	1,705	,426
TNS	16	5,747	1,577	,394

FIG. 79B

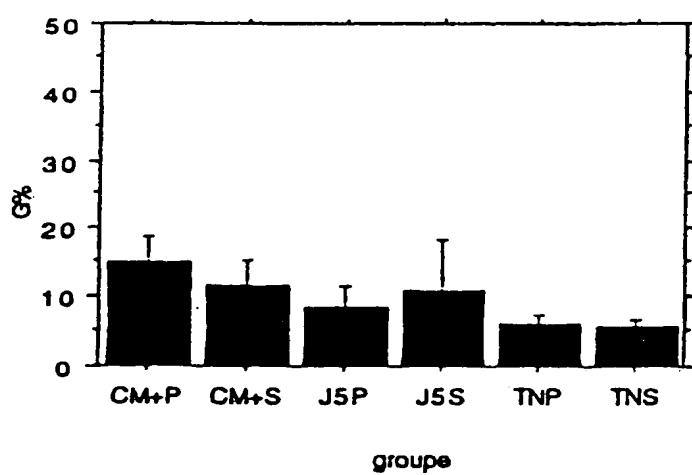


FIG. 79C

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	3,650	4,456	,1070	
CM+P, JSP	6,487	5,303	,0172	S
CM+P, JSS	4,138	5,135	,1129	
CM+P, TNP	8,940	4,521	,0002	S
CM+P, TNS	9,567	4,521	<.0001	S
CM+S, JSP	2,837	5,185	,2793	
CM+S, JSS	,488	5,013	,8475	
CM+S, TNP	5,291	4,381	,0186	S
CM+S, TNS	5,917	4,381	,0088	S
JSP, JSS	-2,351	5,779	,4203	
JSP, TNP	2,453	5,241	,3542	
JSP, TNS	3,080	5,241	,2455	
JSS, TNP	4,805	5,070	,0628	
JSS, TNS	5,432	5,070	,0361	
TNP, TNS	,827	4,447	,7797	S

FIG. 79D

FIG. 79E

	ddl	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambda	Puissance
Groupe	5	1233,374	246,675	5,074	.0005	25,371	,984
Résidu	74	3587,369	48,613				

	Nombre	Moyenne	Dév. Std.	Err. Std.
CM+P	13	20,499	10,847	3,008
CM+S	17	15,442	6,952	1,686
JSP	9	12,342	4,375	1,458
JSS	10	13,509	9,823	3,106
TNP	14	9,628	3,391	,906
TNS	17	9,211	3,882	,941

FIG. 79F

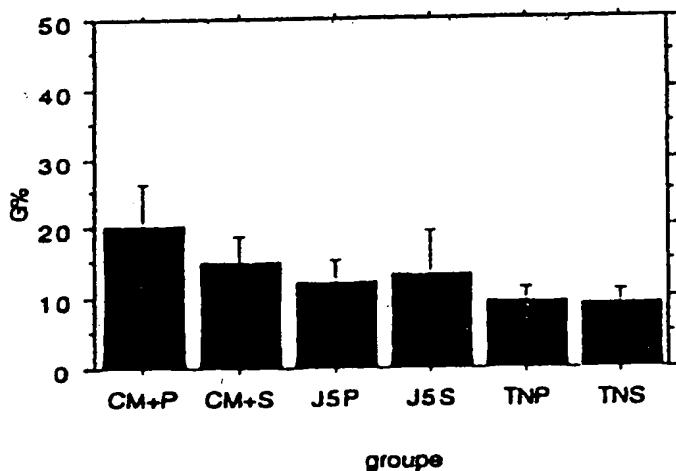


FIG. 79G

	Diff. moy.	Diff. crit.	Valeur p	
CM+P, CM+S	5,057	5,119	,0527	S
CM+P, JSP	8,158	6,024	,0086	S
CM+P, JSS	6,991	5,844	,0197	S
CM+P, TNP	10,871	5,351	,0001	S
CM+P, TNS	11,288	5,119	<.0001	S
CM+S, JSP	3,101	5,727	,2842	
CM+S, JSS	1,934	5,537	,4887	
CM+S, TNP	5,814	5,014	,0238	S
CM+S, TNS	6,231	4,765	,0111	S
JSP, JSS	-1,167	6,383	,7166	
JSP, TNP	2,713	5,938	,3654	
JSP, TNS	3,130	5,727	,2797	
JSS, TNP	3,880	5,752	,1830	
JSS, TNS	4,297	5,537	,1262	
TNP, TNS	,417	5,014	,8689	

FIG. 79H

ANOVA TABLE FOR TCRBV20

	DEGREE OF FREEDOM	SQUARE SUM	MEAN SQUARE	F VALUE	P VALUE	TWO WAY ANOVA POWER LAMBDA CALCULATION
GROUP	5	747,683	149,537	3,122	,0128	15,608 ,860
RESIDUAL	78	3736,485	47,904			

FISCHER'S PLSD TEST FOR TCRBV20

EFFECT: GROUP

SIGNIFICANCE UNDER: 5%

	MEAN DIFFERENCE	CRITICAL DIFFERENCE	P VALUE	
CM+P, CM+S	6,950	4,973	,0068	s
CM+P, J5P	9,116	5,887	,0028	s
CM+P, J5S	7,939	5,705	,0070	s
CM+P, TNP	6,974	4,973	,0066	s
CM+P, TNS	8,482	4,973	,0011	s
CM+S, J5P	2,167	5,680	,4499	
CM+S, J5S	,990	5,491	,7208	
CM+S, TNP	,025	4,726	,9917	
CM+S, TNS	1,532	4,726	,5206	
J5P, J5S	-1,177	6,331	,7122	
J5P, TNP	-2,142	5,680	,4551	
J5P, TNS	-,635	5,680	,8245	
J5S, TNP	-,965	5,491	,7275	
J5S, TNS	,542	5,491	,8446	
TNP, TNS	1,507	4,726	,5274	

FIG. 80A

MEAN TABLE FOR TCRBV20

EFFECT: GROUP

NUMBER	MEAN	STANDARD	
		DEVIATION	STANDARD ERROR OF THE MEAN
CM+P	14	12,693	3,392
CM+S	17	6,534	1,585
J5P	9	4,189	1,396
J5S	10	5,365	1,697
TNP	17	4,696	1,139
TNS	17	3,593	,871

GRAPH OF INTERACTIONS FOR TCRBV20

EFFECT: GROUP

ERRORS BARS: \pm 1,96 STANDARD ERROR OF THE MEAN

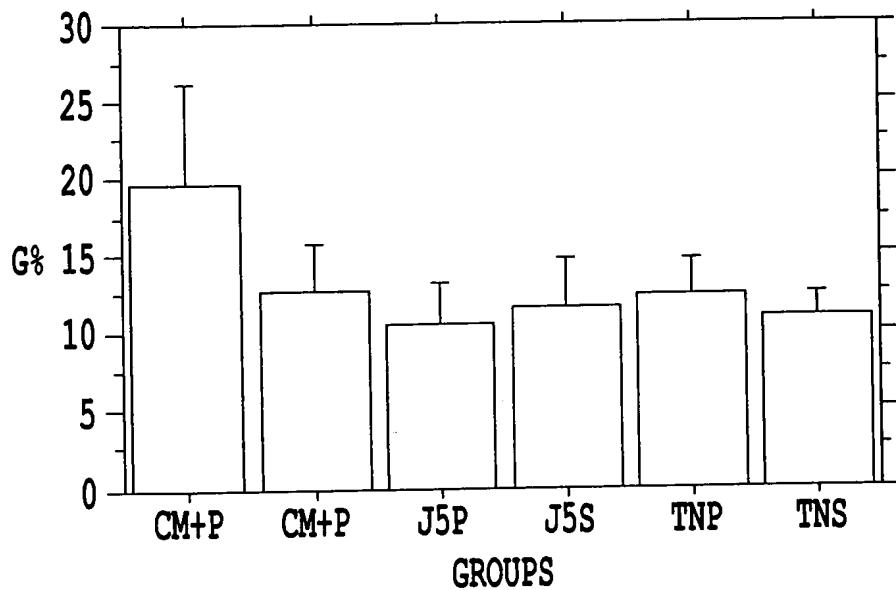


FIG. 80B

Paramètres du pic à récupérer

Taille **216**

Nature **[REDACTED]** GRBY 52

Ecrit **13**

Paramètres des fichiers à utiliser

	Classement	Feuilles	Groupe	Nature	Remarques
1	DataFormatter OG/009 v1.01	Data.1	1	RT11	
2	DataFormatter OG/008 v1.03	Data.2	1	RT12	
3	DataFormatter OG/007 v1.04	Data.3	1	RT13	
4	DataFormatter OG/009 v1.01	Data.2	1	RT14	
5	DataFormatter OG/008 v1.03	Data.3	1	RT15	
6	DataFormatter OG/005.4 v1.01	Data.3	1	RT28	
7	DataFormatter OG/009 v1.01	Data.3	1	RT29	
8	DataFormatter OG/003 v1.01	Data.2	1	RT30	
9	DataFormatter OG/003 v1.01	Data.3	1	RT31	
29	DataFormatter OG/019 v1.04	Data.3	2	RS21	
30	DataFormatter OG/020 v1.01	Data.2	2	RS22	
31	DataFormatter OG/022 v1.04	Data.1	2	RS23	
32	DataFormatter OG/021 v1.04	Data.2	2	RS24	
33	DataFormatter OG/022 v1.04	Data.2	2	RS25	
19	DataFormatter OG/015 v1.04	Data.2	3	R3*16	
20	DataFormatter OG/019 v1.04	Data.1	3	R3*17	
21	DataFormatter OG/016 v1.04	Data.2	3	R3*18	
22	DataFormatter OG/019 v1.04	Data.2	3	R3*19	
23	DataFormatter OG/017 v1.01	Data.2	3	R3*20	
39	DataFormatter OG/010 v1.04	Data.2	4	R3*S06	
40	DataFormatter OG/013 v1.04	Data.1	4	R3*S07	
41	DataFormatter OG/011 v1.04	Data.2	4	R3*S08	
42	DataFormatter OG/013 v1.04	Data.2	4	R3*S09	
43	DataFormatter OG/012 v1.04	Data.2	4	R3*S10	

FIG. 81

AC DA v1.0B R sans Vb19

Score de régulation		16/06/00	
	Score RT		Score RT'
TCRBV15 :174	0.16	TCRBV08.1 :231	0.32
TCRBV15 :177	0.15	TCRBV15 :174	0.19
TCRBV16 :167	0.14	TCRBV05.2 :216	0.18
TCRBV16 :148	0.11	TCRBV10 :136	0.15
TCRBV15 :171	0.10	TCRBV15 :177	0.14
TCRBV05.2 :216	0.10	TCRBV05.1 :225	0.14
TCRBV16 :151	0.09	TCRBV05.1 :222	0.13
TCRBV14 :158	0.09	TCRBV05.2 :219	0.13

Score RT		Score RT'	
	Score RT		Score RT'
TCRBV08.1 :231	0.32	TCRBV15 :174	0.14
TCRBV15 :174	0.19	TCRBV16 :148	0.13
TCRBV05.2 :216	0.18	TCRBV15 :177	0.12
TCRBV10 :136	0.15	TCRBV03 :153	0.10
TCRBV15 :177	0.14	TCRBV08 :160	0.08
TCRBV05.1 :225	0.14	TCRBV13 :168	0.09
TCRBV15 :171	0.13	TCRBV15 :171	0.08
TCRBV10 :138	0.13	TCRBV05.1 :225	0.08

Score RT		Score RT'	
	Score RT		Score RT'
TCRBV15 :174	0.14	TCRBV15 :174	0.15
TCRBV16 :148	0.13	TCRBV15 :177	0.13
TCRBV15 :177	0.12	TCRBV05.2 :216	0.12
TCRBV03 :153	0.10	TCRBV05.2 :213	0.10
TCRBV08 :160	0.08	TCRBV05.1 :225	0.09
TCRBV13 :168	0.09	TCRBV08.1 :231	0.08
TCRBV15 :171	0.08	TCRBV15 :171	0.08
TCRBV05.1 :225	0.08	TCRBV10 :138	0.08

Score RT		Score RT'	
	Score RT		Score RT'
TCRBV01	7.22	5.08	9.87
TCRBV02	3.49	6.01	6.13
TCRBV03	15.86	16.58	16.28
TCRBV04	13.12	18.02	17.85
TCRBV05.1	9.42	23.63	24.96
TCRBV06.2	7.40	12.10	12.44
TCRBV06	13.04	12.37	6.81
TCRBV07	3.81	6.49	4.37
TCRBV08.1	2.40	18.20	5.98
TCRBV09.2	13.38	21.83	14.72
TCRBV08.3	4.50	8.28	5.98
TCRBV09	15.74	18.38	23.49
TCRBV10	6.93	11.33	11.68
TCRBV11	7.35	7.88	5.97
TCRBV12	14.78	14.86	8.34
TCRBV13	11.25	10.17	12.27
TCRBV14	3.28	8.20	6.43
TCRBV15	7.85	8.52	9.27
TCRBV16	17.11	15.19	13.97
TCRBV17	15.28	11.24	15.53
TCRBV18	11.82	16.43	11.61

FIG. 82

AC : DA v1.05 F sans Vb19

para

AC → OG

Paramètres du pic à récupérer

Analyse foie

Talik 216

Nature ~~TCRBV32~~

Ecrit 13

Paramètres des fichiers à utiliser

	Classeur	Feuille	Groupe	Nature	Remarque
10	DataFormatter OG/006 v1.01	Data.1	1	FT11	
11	DataFormatter OG/006 v1.01	Data.2	1	FT12	
12	DataFormatter OG/007 v1.04	Data.1	1	FT13	
13	DataFormatter OG/007 v1.04	Data.2	1	FT14	
14	DataFormatter OG/008 v1.03	Data.1	1	FT15	
15	DataFormatter OG/003 v1.01	Data.1	1	FT26	
16	DataFormatter OG/005.4 v1.01	Data.1	1	FT27	
17	DataFormatter OG/005.4 v1.01	Data.2	1	FT28	
18	DataFormatter OG/006 v1.01	Data.3	1	FT29	
24	DataFormatter OG/015 v1.04	Data.1	2	F3*16	
25	DataFormatter OG/015 v1.04	Data.3	2	F3*17	
26	DataFormatter OG/016 v1.04	Data.1	2	F3*18	
27	DataFormatter OG/016 v1.04	Data.3	2	F3*19	
28	DataFormatter OG/017 v1.01	Data.1	2	F3*20	
34	DataFormatter OG/017 v1.01	Data.3	3	FS21	
35	DataFormatter OG/020 v1.01	Data.1	3	FS22	
36	DataFormatter OG/020 v1.01	Data.3	3	FS23	
37	DataFormatter OG/021 v1.04	Data.1	3	FS24	
38	DataFormatter OG/021 v1.04	Data.3	3	FS25	
44	DataFormatter OG/012 v1.04	Data.3	4	F3*S01	
45	DataFormatter OG/033 v1.04	Data.3	4	F3*S02	
46	DataFormatter OG/014 v1.01	Data.1	4	F3*S03	
47	DataFormatter OG/014 v1.01	Data.2	4	F3*S04	
48	DataFormatter OG/014 v1.01	Data.3	4	F3*S05	
49	DataFormatter OG/010 v1.04	Data.1	4	F3*S06	
50	DataFormatter OG/010 v1.04	Data.3	4	F3*S07	
51	DataFormatter OG/011 v1.04	Data.1	4	F3*S08	
52	DataFormatter OG/011 v1.04	Data.3	4	F3*S09	
53	DataFormatter OG/012 v1.04	Data.1	4	F3*S10	

FIG. 83

Classement selon le score d'opportunité pour chaque des groupes

Score FT		Score E3		Score S		Score FT	
TCRBV19 : 161	0,11	TCRBW05,1 : 222	0,52	TCRBV10 : 138	1,23	TCRBV05,1 : 222	0,22
TCRBV05,1 : 61	0,20	TCRBW05,1 : 225	0,31	TCRBV05,1 : 225	0,21	TCRBV15 : 177	0,21
TCRBV08,1 : 231	0,17	TCRBV19 : 167	0,26	TCRBW08,1 : 231	0,39	TCRBV13 : 168	0,20
TCRBV18 : 151	0,14	TCRBV09 : 144	0,21	TCRBV08,1 : 234	0,33	TCRBV08 : 153	0,20
TCRBV08,1 : 234	0,12	TCRBV09 : 147	0,20	TCRBV05,1 : 228	0,29	TCRBV05,2 : 216	0,20
TCRBV05,1 : 226	0,12	TCRBV08 : 150	0,20	TCRBV05,2 : 216	0,21	TCRBV05,1 : 225	0,17
TCRBV05,2 : 219	0,10	TCRBV09 : 153	0,19	TCRBV08,1 : 228	0,20	TCRBV01 : 176	0,16
TCRBV08,1 : 226	0,10	TCRBV05,2 : 213	0,18	TCRBV05,2 : 219	0,18	TCRBV10 : 141	0,15
TCRBV06,1 : 226	0,10	TCRBV19 : 144	0,17	TCRBV10 : 146	0,17	TCRBV09 : 147	0,15
TCRBV05,2 : 216	0,09	TCRBV05,2 : 219	0,14	TCRBV10 : 136	0,14	TCRBV05,2 : 213	0,14
TCRBV10 : 138	0,09	TCRBV05,1 : 228	0,13	TCRBV20 : 152	0,12	TCRBV16 : 174	0,13
TCRBV05,1 : 222	0,08	TCRBV14 : 168	0,13	TCRBV10 : 141	0,11	TCRBV05,2 : 218	0,12
TCRBV10 : 141	0,08	TCRBV13 : 168	0,12	TCRBV05,2 : 213	0,10	TCRBV01 : 173	0,11
TCRBV05,2 : 222	0,07	TCRBV05,2 : 222	0,11	TCRBV3 : 168	0,10	TCRBV08 : 146	0,11
TCRBV18 : 168	0,06	TCRBV01 : 173	0,11	TCRBV15 : 174	0,09	TCRBV08,1 : 231	0,11
TCRBV18 : 169	0,06	TCRBV12 : 204	0,10	TCRBV10 : 135	0,09	TCRBV05,1 : 228	0,11
TCRBV04 : 198	0,06	TCRBV10 : 198	0,10	TCRBV16 : 145	0,09	TCRBV05,1 : 231	0,11
TCRBV12 : 204	0,06	TCRBV01 : 176	0,10	TCRBV14 : 158	0,09	TCRBV13 : 165	0,10
TCRDV13 : 168	0,06	TCRBV12 : 210	0,10	TCRBV09 : 147	0,08	TCRBV08 : 150	0,10
TCRBV01 : 176	0,05	TCRBV15 : 174	0,10	TCRBV05,2 : 222	0,08	TCRBV10 : 135	0,10
TCRBV03 : 163	0,05	TCRBV10 : 141	0,10	TCRBV16 : 151	0,08	TCRBV08 : 149	0,09
TCRBV10 : 135	0,05	TCRBV12 : 201	0,10	TCRBV20 : 155	0,08	TCRBV09 : 144	0,08
TCRBV02 : 158	0,05	TCRBV15 : 177	0,09	TCRBV15 : 177	0,08	TCRBV15 : 171	0,08
TCRBV12 : 207	0,05	TCRBV20 : 155	0,09	TCRBV08,2 : 228	0,08	TCRBV11 : 154	0,08
TCRBV02 : 161	0,05	TCRBV14 : 155	0,08	TCRBV03 : 153	0,08	TCRBV14 : 158	0,08
TCRBV14 : 168	0,05	TCRBV20 : 152	0,08	TCRBV13 : 165	0,07	TCRBV01 : 170	0,08
TCRBV13 : 165	0,05	TCRBV13 : 165	0,08	TCRBV20 : 149	0,07	TCRBV08,1 : 228	0,07
TCRBV15 : 177	0,04	TCRBV10 : 151	0,08	TCRBV07 : 180	0,07	TCRBV07 : 180	0,07
TCRBV04 : 195	0,04	TCRBV08,1 : 231	0,07	TCRBV14 : 155	0,06	TCRBV28,1 : 234	0,07
TCRBV05,1 : 231	0,04	TCRBV02 : 150	0,07	TCRBV19 : 167	0,06	TCRBV08 : 143	0,07
TCRBV20 : 152	0,04	TCRBV14 : 161	0,07	TCRBV15 : 171	0,06	TCRBV05,1 : 222	0,07
TCRBV20 : 155	0,04	TCRBV20 : 149	0,07	TCRBV08,3 : 217	0,06	TCRBV14 : 161	0,06
TCRBV08,2 : 228	0,04	TCRBV01 : 179	0,07	TCRBV16 : 142	0,06	TCRBV03 : 155	0,06
TCRBV01 : 173	0,04	TCRBV08,1 : 228	0,07	TCRBV09 : 150	0,06	TCRBV08,2 : 223	0,06
TCRBV06 : 146	0,04	TCRBV12 : 207	0,07	TCRBV07 : 146	0,06	TCRBV07 : 183	0,06

FIG. 84

Cases	Groups	TCRE
RT3	1	0,00
RT4	1	0,00
RT5	1	0,00
RT6	1	0,00
R11	1	0,00
R12	1	0,00
R13	1	0,00
R14	1	0,00
R15	1	0,00
RS21	2	0,00
RS22	2	0,00
RS23	2	0,00
RS24	2	0,00
RS25	2	0,00
R3*16	3	0,00
R3*17	3	0,00
R3*18	3	0,00
R3*19	3	0,00
R3*17	3	0,00
R3*S6	4	0,00
R3*S7	4	0,00
R3*S8	4	0,00
R3*S9	4	0,00
R3*S10	4	0,00
FT26	5	0,00
FT27	5	0,00
FT28	5	0,00
FT11	5	0,00
FT29	5	0,00
FT12	5	0,87
FT13	5	0,00
FT14	5	2,61
FT15	5	0,00
FS21	6	2,16
FS22	6	0,00
FS23	6	3,29
FS24	6	0,00
FS25	6	0,00
F3*16	7	0,00
F3*17	7	0,00
F3*18	7	0,00
F3*19	7	0,00
F3*20	7	0,00
F3*S1	8	0,00
F3*S2	8	0,00
F3*S3	8	0,00
F3*S4	8	0,00
F3*S5	8	0,00
F3*S6	8	0,00
F3*S7	8	0,00
F3*S8	8	0,00
F3*S9	8	0,00
F3*S10	8	0,00

Organe { F = foie
 R = rate
 Groupe { T = témoin
 Expérimental { S = directement infecté
 3* = immunisé 3 fois
 3*S = immunisé 3 fois,
 puis infecté !

FIG. 85

FIG. 86

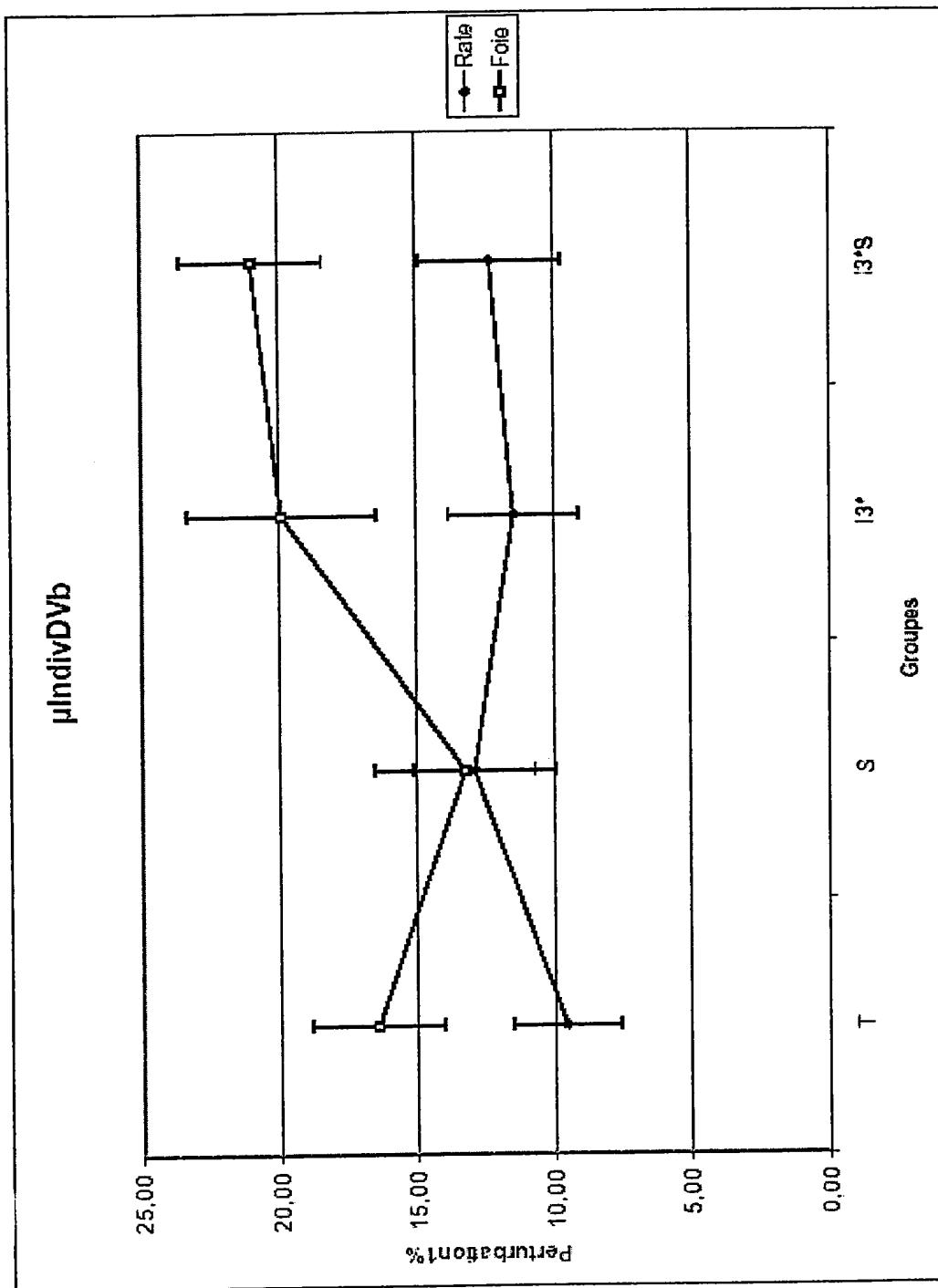


FIG. 87

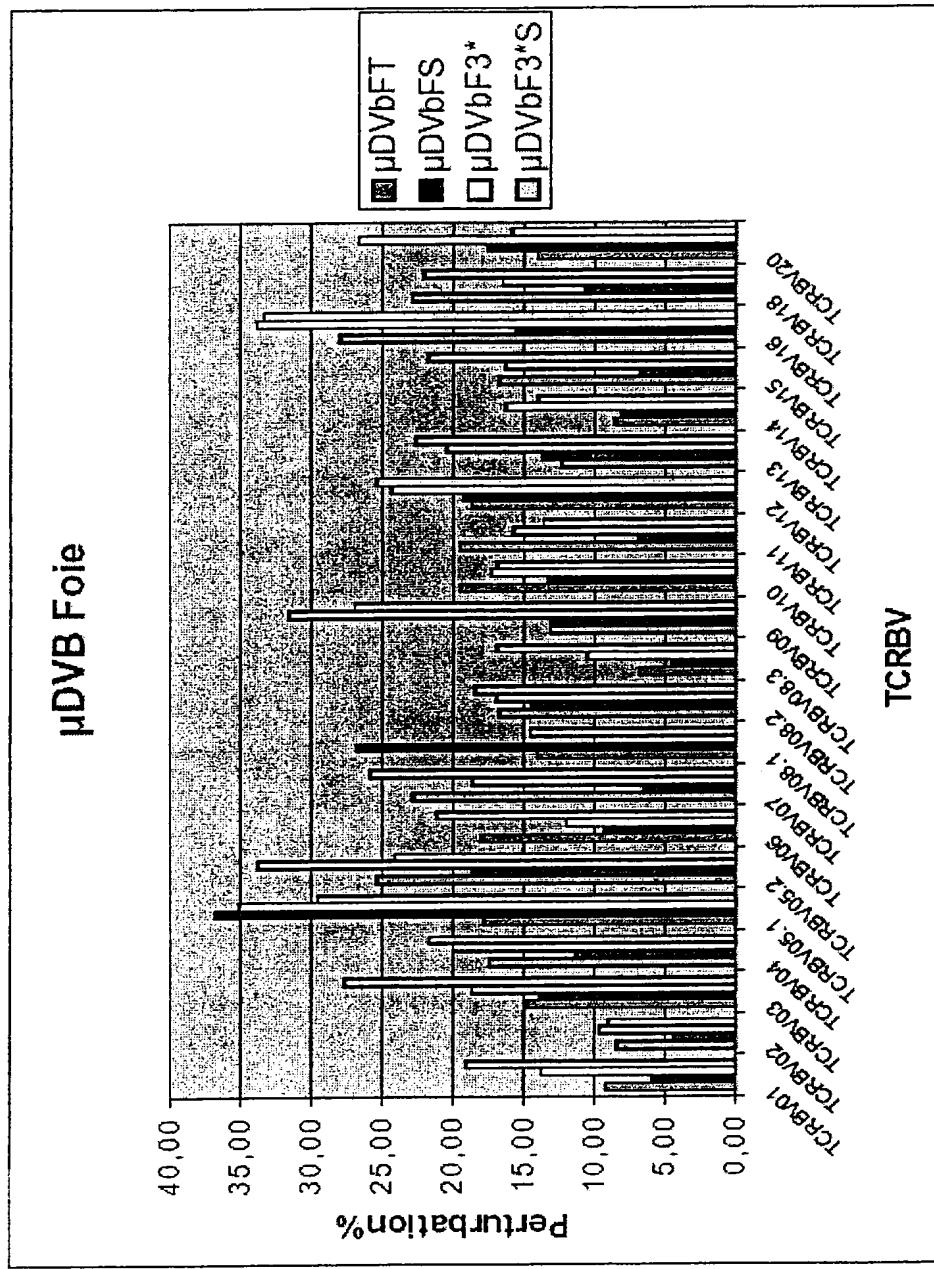


FIG. 88

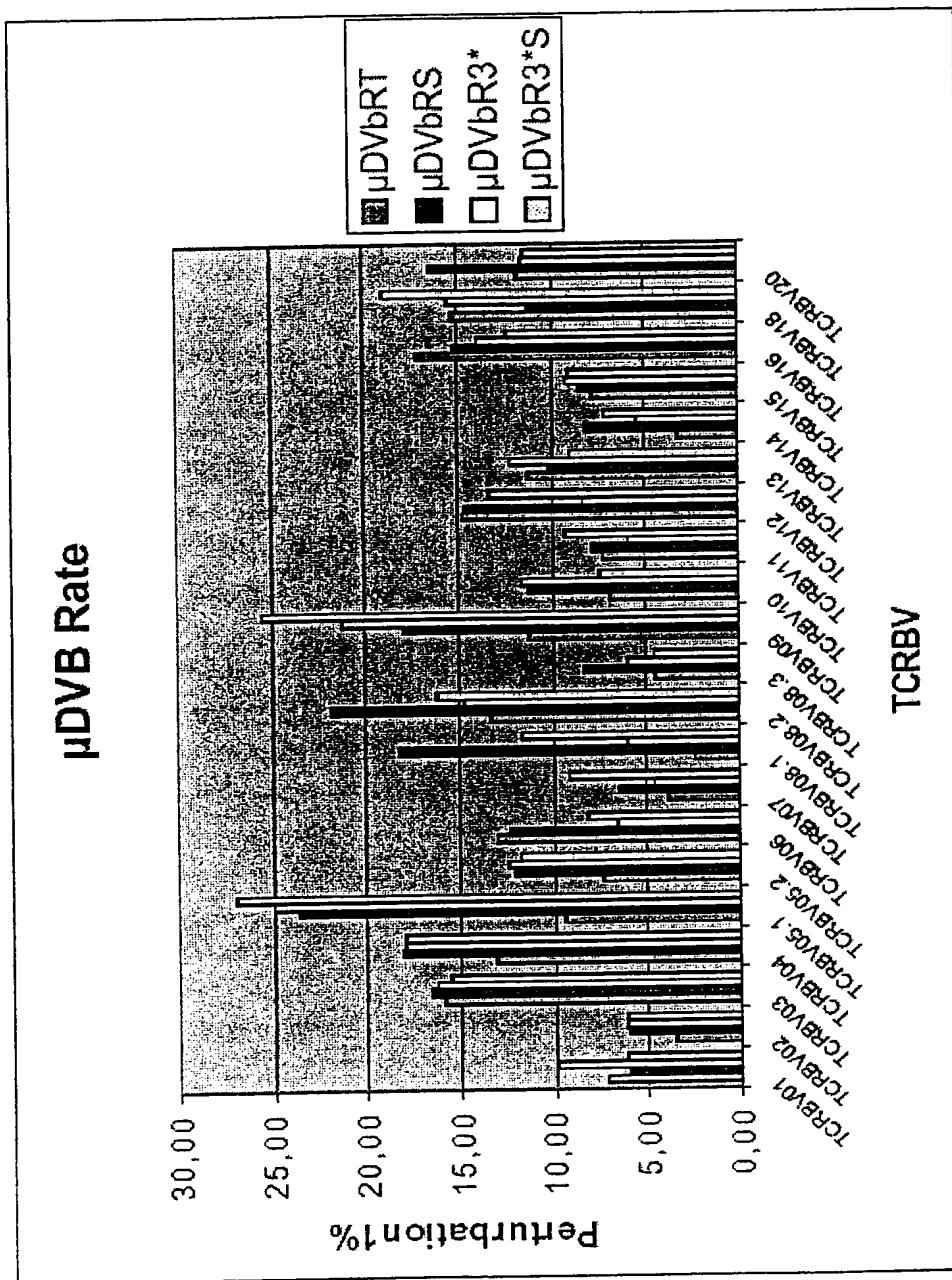


FIG. 89A

Tableau ANOVA pour TCRCW01

	df	Somme des carrés	Carré moyen	Valeur de F	Valeur de P	Lambda	Fistastique
Groupe	3	301,294	100,431	1,000	.3754	3,137	,262
Organe	1	345,472	345,472	3,668	.0621	3,096	,451
Groupes * Organe	3	277,668	92,555	.982	.4030	2,846	,243
Petits	44	4145,039	94,248				

FIG.89B

Tableau des moyennes pour TCRW01
 Effect : Groupe * Organisme

	Nom/âge	Moyenne	Dév. Std.	Err. Std.
T, R	9	7.222	8.452	2.617
T, F	9	8.872	8.703	3.077
S, R	5	5.995	1.464	.855
S, F	5	7.307	.810	.362
IJ*, H	5	9.871	9.730	4.352
IJ*, F	5	14.006	11.284	6.046
IJ'S, H	5	6.113	3.746	1.676
IJ'S, F	10	19.010	15.238	4.818

FIG. 89C

Test PLSD de Fleiss pour TGBW01

Effet : Groupe

Niveau de signification : 5 %

	Diff. moy.	Crit.	Valeur P
T. S	1,047	7,797	.7079
T. 13*	-4,185	7,797	.2631
T. 13-S	-6,713	6,531	.0573
S. 13*	+5,433	8,750	.2174
S. 13-S	-7,760	7,906	.0566
13*. 13-S	-2,328	7,940	.5600

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FIG.89D

Test PLSD de Fisher pour TCHNOV1

Effet : Organes

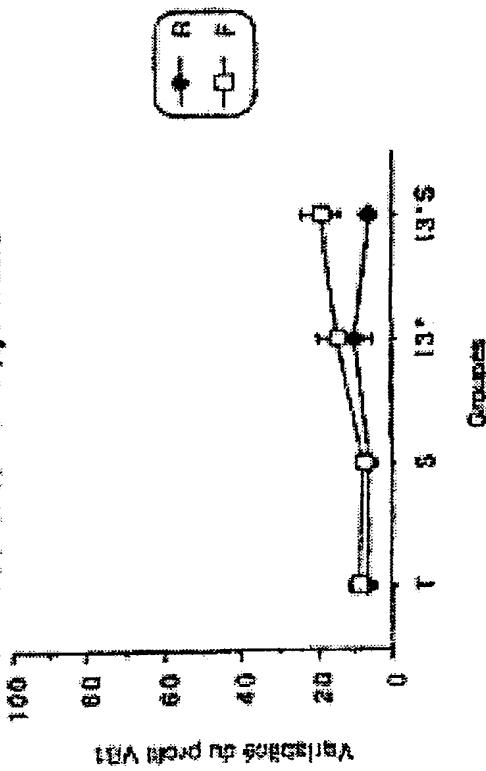
Niveau de significativité : 5 %

	Dif. entre	Dif. crit.	Value p
R, F	-6,105	5,413	,0207

Courbe des interactions pour TCHNOV1

Effet : Groupes * Organes

Barre d'erreur : ± Écart(s) standard



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FIG. 89E

Tableau ANOVA pour TCRBV32

		eff		Gesamt des carbes	Carré moyen	Valeur de F	Valeur du p	Lambdas	Fuissance
Gruppe	3		59.308	13.769	1.781	,1647	,5,343	,422	
Organes	1		113.012	113.012	10,202	,0025	10,262	,697	
Grappe " Organes"	3		36.571	10.957	1,708	,1792	,5,123	,406	
Fécondité	44		488.432	11.101					

FIG. 89F

Tableau de moyennes pour l'organe
Effet : Groupe * Organes

Nombre	Moyenne	Dév. Std.	Err. Std.
1, R	9	3,460	2,263
1, F	8	6,657	5,581
5, R	5	9,098	2,337
5, F	5	5,307	1,494
13*, R	5	6,135	1,630
13*, F	5	10,072	3,968
13** R	5	6,000	2,025
13** F	10	10,022	3,519

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FIG. 89G

Test PLSD de Fisher pour TCRBV02
Etu : Groupe
Niveau de significativite : 5 %

	Diff. moy.	Diff. crit.	Valeur p
T. S	,285	2,676	,0426
T. 13*	-2,181	2,676	,1075
T. 13-S	-2,700	2,379	,0226
S. 13*	-2,447	3,003	,1077
S. 13-S	-3,056	2,741	,0298
H*. 13-S	,606	2,741	,6570

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REPLACEMENT SHEET(S)

FIG. 89H

Test PLSD de Fisher pour TCRBV02

Efet : Organes

Niveau de significativité : 5 %

Dif. moy.	Dif. crit.	Valeur p
2,692	1,868	,0003

Courbe des interactions pour TCRBV02

Efet : Groupe * Organes

Barres d'erreur: ± 1 Erreur(s) standard

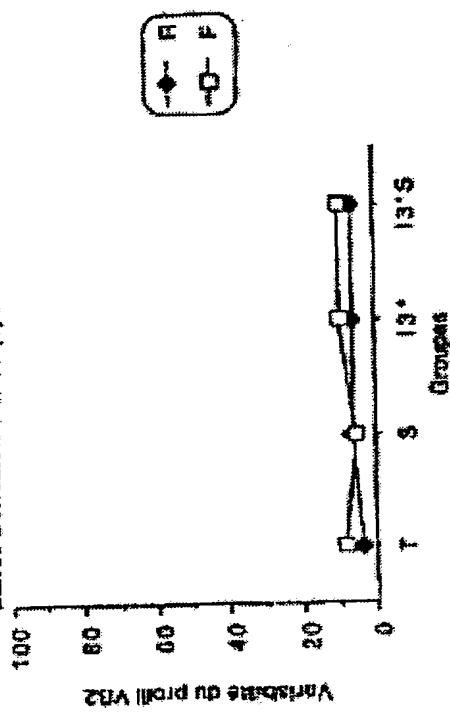


Tableau ANCOVA pour TCRF vs. 1

	df	Somme des carrés	Carré moyen	Valeur de F	Valeur de P	Lambda	Fiducialité
Groupes	3	2329,744	776,581	12,458	<.0001	.37,374	.1,000
Organe	1	292,059	292,059	4,700	.0356	4,700	.555
Groupes * Organe	3	157,890	52,663	,845	,4768	2,535	.213
Réésidus	44	2742,780	62,335				

FIG. 90A

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REPLACEMENT SHEET(S)

FIG. 90B

Tableau de moyennes pour TCABV05.1
Effect : Groupe • Organes

	Nombre	Moyenne	Dév. Std.	Eff. Std.
T, R	9	9.418	0.307	3.102
T, F	8	16.356	10.547	3.729
S, R	5	23.630	4.560	2.174
S, F	5	32.058	6.573	2.045
13*, R	5	24.950	7.009	3.136
13*, F	5	30.128	6.922	3.094
13*5, R	5	26.883	5.416	2.512
13*3, F	10	26.153	6.016	2.526

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REPLACEMENT SHEET(S)

FIG. 90C

Test PLEd de Fisher pour TCHBVT5.1
Effet : Groupe
Niveau de signification : 5 %

	DAT.	mean.	Dif.	Crit.	Valeur P
T, S	-15,161	6,341	<.0001	S	
T, 13*	-14,895	6,341	<.0001	S	
T, 13-S	-13,753	5,637	<.0001	S	
S, 13*	,205	7,116	,9405		
S, 13-S	1,406	6,486	,8644		
13*, 13-S	1,143	6,495	,7247		

Test PLSD de Fisher pour TCRW05.1

Effet : Organe

Niveau de significativité : 5 %

Grou.	Mean.	Dif.	crit.	Val. test p
R, F	5.855	4.426	0.0107	9

Courbe des interactions pour TCRW05.1

Effet : Groupe * Organ

Barres d'erreur: ± 1 Erreur(t) standard

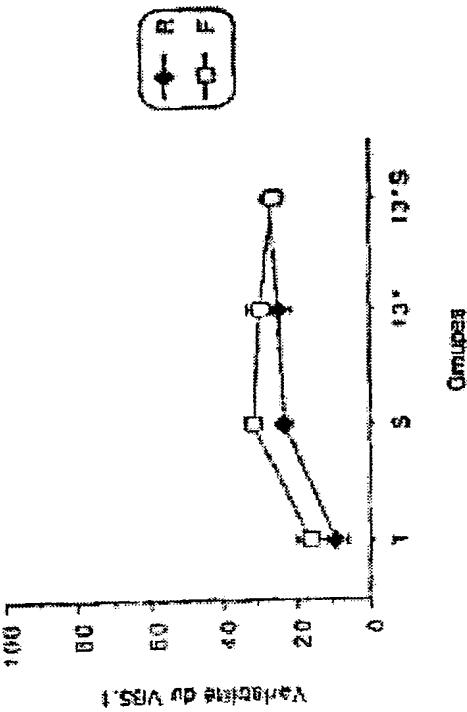


FIG. 90D

FIG. 90E

Tableau ATROYA pour TORB VIT.2

Grp	Énergie des carbes	Carb moyen	Value de F	Value de G	Lambda	Prébairent
3	118H,458	395,192	4,398	,0086	13,186	0,49
4	2230,335	2230,335	24,743	<.0001	24,743	1,000
5	453,445	151,148	1,677	,1010	5,030	,398
44	3586,148	90,140				

Grp
Organic
Grp + Organic
PdM

FIG. 90F

Tableau de moyennes pour TCHENNE5.2
Effect : Groups • Organisme

Membre	Moyenne	Std.	Eff. Std.	Eff. Std.
T, R	9	7,397	8,310	2,770
T, F	8	14,408	6,948	2,456
S, R	5	12,099	6,010	4,062
S, F	6	20,821	9,563	4,277
13*, R	6	12,444	7,334	3,280
13*, F	5	24,650	11,084	4,957
13-S, R	5	11,768	6,884	3,078
13-S, F	10	28,408	12,840	4,640

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

Test tPSO de Fisher pour l'ICEBVS 2

Hyp : Groupe

Niveau de signification : 2 %

	Dif. moy.	Dif. crit.	Valueur Q
T. S	-5,709	7,626	.1345
T. IJ*	-12,451	7,026	.0015
T. IJS	-12,165	9,776	.0001
S. IJ*	-7,062	8,557	.1024
S. IJS	-6,397	7,812	.1080
IJ*, IJS	1,886	7,012	.0604

FIG. 90G

Test du SE de Fisher pour TCRB M2
 Effet : Organic
 Niveau de significativité : 5 %
 Diff. moy. Diff. crit. Valeur B
 R, F +13.031 6.323 < DOD1 8

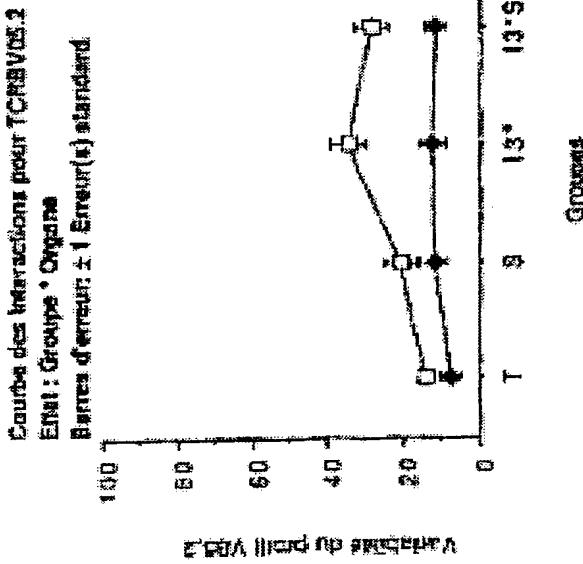


FIG. 90H

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

Tableau ANOVA pour TCHBVS.1

	Nombre des échantis	Centré moyen	Value de F	Value de G	Lambda	Puissance
Groupe	3	1122.156	374.063	4.322	.0002	.843
Organis	1	013.580	603.500	8.013	.0069	.013
Organis * Groupe	1	163.046	54.015	.631	.5986	1.683
Résidu	45	3854.043	86.152			1.66

FIG. 91A

FIG. 91B

Tableau des moyennes pour TCRGvent.1
Etat : Groupe * Origine

	Moyenne	Moyenne	Dif.	Std.	Err. \$M.
T, H	0	2,401	1,210	1,93	
T, F	0	15,375	11,966	3,989	
S, H	5	10,203	3,500	1,744	
S, F	5	24,238	13,526	6,049	
13*, F	5	5,902	2,530	1,134	
13*, F	5	12,669	7,060	3,181	
13-S, F	5	11,682	15,353	6,855	
13-S, F	10	15,248	8,140	2,850	

OBLON ET AL (703) 413-3000
DOCKET # 2639961USDX PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

Test PLSD de Fisher pour TICBWB.1
Effect : Groupe
Niveau de significativité : 5 %

	Est. moy.	Diff. crit.	Valeur F
T, S	12.333	7.300	.0016
T, T*	4.444	7.390	.0034
T, 13'S	5.638	6.551	.0784
S, T*	11.385	6.380	.0065
S, 13'S	6.406	7.650	.0841
13', 13'S	6.380	7.650	.4027

FIG. 91C

OBLON ET AL (703) 413-3000
 DOCKET # 26396USDX PCT
 INV. Alexis COLLETTTE et al.
 USSN 10/519,950
 Reply to O.A. DATED NOVEMBER 1, 2007
 REPLACEMENT SHEET(S)

Test PLSD de Fisher pour TCR5V0A.1			
Effet : Origine			
Niveau de signification : 5 %			
Dif. moy.	Diff. crit.	Valeur F	
R, F	8.369	5.171	0.021

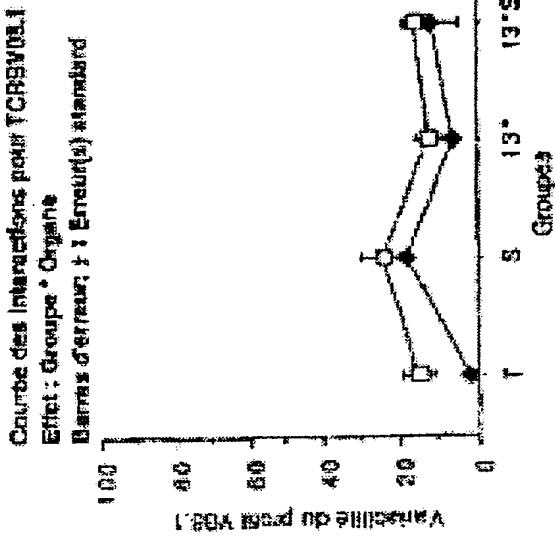


FIG. 91D

OBLON ET AL (703)413-3000
DOCKET # 263996US0X PCT
INV .Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

FIG. 91E

Tableau ANOVA pour TCRBWRG3

Grupps	Summe des carres	Carré moyen	Valeur de F	Valeur de D	Lambida	Puissance
3	61.854	20.618	,422	,7382	1,255	,126
1	8,460	6,460	,152	,7177	,132	,064
Groups * Organit	254,176	94,762	1,716	,1734	5,204	,412
Résidu	2189,526	46,878				

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

Tableau des moyennes pour TCREV04,2
Titre : Groupes * Groupe

	Moyenne	Moyenne	Dif. Std.	Et. Std.
T, F	5 12,383	4,882	1,627	
T, F	5 15,148	6,011	2,004	
3, R	5 21,828	10,938	4,801	
5, F	5 12,804	8,454	4,228	
13*, R	5 14,730	7,517	3,196	
13*, F	5 16,325	6,149	2,710	
13*3, R	5 16,190	6,697	3,889	
13*3, F	10 17,819	4,705	1,488	

FIG. 91F

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

FIG. 91G

Test PLSD de Fligner pour TCHIVUS2
Effect: Groupe
Niveau de signification: 5 %

	Crit. moy.	Crit. inf.	Crit. sup.
T. S	-2,650	-5,954	-3,509
T. 13*	-7,93	-5,564	-7,848
T. 13'S	-2,577	-4,923	-2,973
S. 13'	1,793	0,297	-3,8012
S. 13'S	-0,027	5,749	9,925
13*. 13'S	-1,620	5,749	-5,270

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTÉ et al.
USSN 10/519,930
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

FIG. 91H

Test PLSD de Fisher pour TCBEW002

Effet : Organe

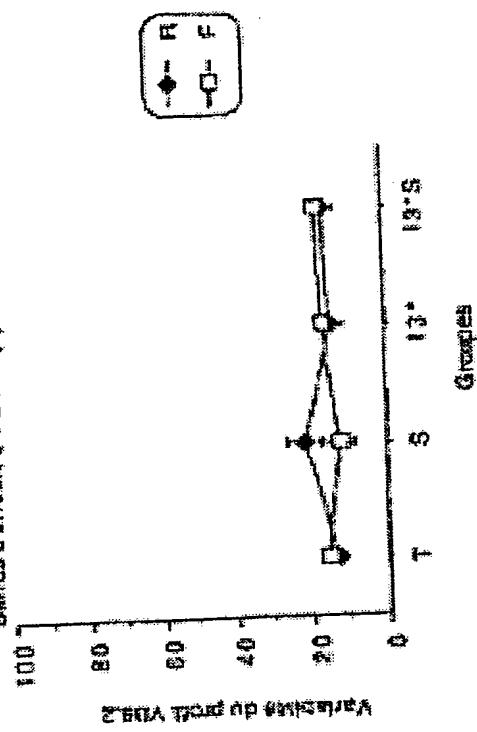
Niveau de signification : 5 %

Effet moy.	Diff. crit.	Valleur p
F ₁ , F ₂	,207	3,080 ,9151

Cauchie des interactions pour TCBEW002

Effet : Groupe * Organe

Différences d'effet et 1 Erreur(s) standard



Tаблица ANOVA pour TCAEVH

	df	Somme des Carrés	Classe moyenne	Valeur de F	Valeur de p	Lambda	Futurage
Groups	3	27.630	9.617	181	.9006	.544	.081
Groups * Onglets	1	6.62.292	6.62.292	13.724	.0006	13.724	.967
Méthode	3	115.402	38.467	.774	.5140	2.321	.158
	45	2237.141	49.714				

FIG. 92A

OBLON ET AL (703) 413-3000
 DOCKET # 26396USOX PCT
 INV. Alexis COLLETTE et al.
 USSN 10/519,950
 Reply to O.A. DATED NOVEMBER 1, 2007
 REPLACEMENT SHEET(S)

Tableau de moyennes pour TCREV10

EHM : Groupe * Origine

	NombrE	Moyenne	Dév. Std.	Err. Std.
T, R	9	6,528	1,974	2,658
T, F	9	17,147	6,508	2,202
S, R	5	11,231	5,743	2,306
S, F	5	16,038	3,804	1,612
13*, R	6	11,694	7,590	3,394
13*, F	5	16,336	8,778	3,820
13*, R	5	7,503	2,533	1,133
13*, F	10	10,473	6,375	2,548

FIG. 92B

OBLON ET AL (703) 413-3000
DOCKET # 203996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

Test FLSD de Fisher pour TCRB10
Ent: Groupe
Niveau de significativite : 5 %

	Diff. moy.	Crit. crit.	Valeur D
T. S	-1.847	6.801	.5507
T. I3*	-1.729	5.601	.5375
T. H3S	-2.790	4.965	.7653
S. I3*	-0.081	6.351	.9186
S. I3*S	-1.134	6.708	.6966
I3*, H3S	-1.053	5.798	.7163

FIG. 92C

Test PLSD de Fisher pour TCHM10
 Effect : Organes
 Niveau de significativité : 5 %
 Diff. moy. Diff. crit. Valeur p
 R, F 18.126 3.919 0.001 S

Courbe des interactions pour TCHM10
 Effect : Groupe * Organes
 Barres d'erreur: ± 1 Erreur(s) standard

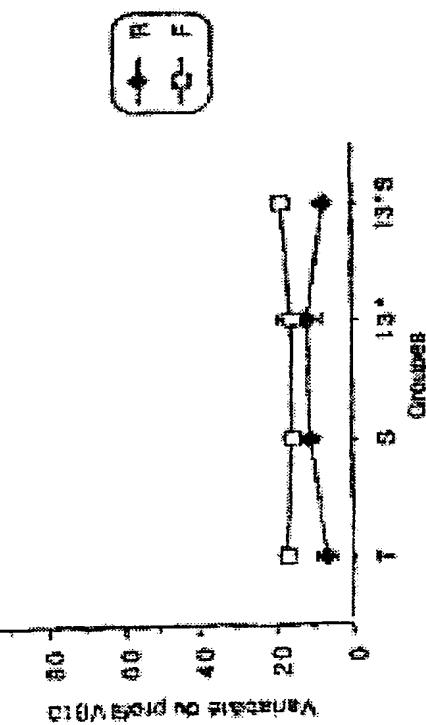


FIG. 92D

FIG. 92E

Tableau ANOVA pour TGRBV11

		df	Somme des carrés	Carré moyen	Valeur de F	Valeur de S	Lambda	Puissance
Groupes	3	233,890	77,867	2,572	,0601	.775	,600	
Organe	1	2349,256	2349,256	77,562	<.0001	.77,562	1,000	
Groupe * Organe	3	127,530	42,510	1,403	,2544	4,210	,336	
Residu	44	1332,711	30,289					

FIG. 92F

Traitement des moyennes pour TCHBVI

Enfant : Groupe "Organic"

	Nombre	Moyenne	Dev. Std.	Err. Std.
T, R	9	7.363	6.354	2.765
T, F	8	16.802	4.023	1.422
S, R	5	7.085	3.081	1.780
S, F	5	21.184	2.702	1.206
I3*, F	5	6.966	1.813	.811
I3*, F	5	22.526	6.417	2.870
I3'S, R	5	9.306	3.977	1.776
I3'S, F	10	26.025	6.012	1.908

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

Test PLSD de Fisher pour TCH6V1
Effet : Groupe
Niveau de signification : 5 %

	Oiff.	moy.	Diff. crit.	Valeur Q
T, S	-2,735	4,420	.2101	
T, I3*	-2,440	4,420	.2709	
T, I3-S	-8,863	3,820	<0,0001	S
S, I3*	-288	4,960	.9073	
S, I3-S	-5,916	4,528	.0116	S
I3*, I3-S	-6,206	4,528	.0063	S

FIG. 92G

Test PT-SD de Fisher pour TCRBV11

Effet : Organisme	Réseau de significativité : 5 %	
Diff. moy.	Dif. crit.	Valeur p
R, F -14.319	3.085	< .0001

Courte des interactions pour TCRBV11
 Effet : Groupe * Organisme
 Partie d'empat : 4 Groupe(s) standard

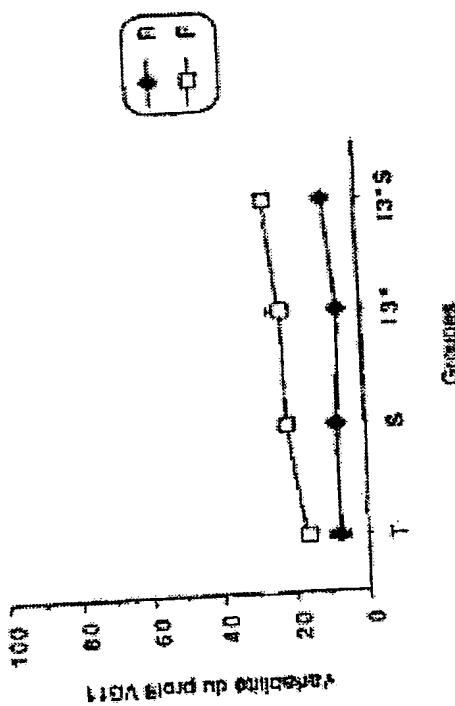


FIG. 92H

OBLON ET AL (703)413-3000
DOCKET # 2639961 ISOX PCT
INV. Alexis COLLETTE et al.

USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

Tableau ANOVA pour TCHBTT4

Groupe	Somme des carrés	Carré moyen	Value de F	Value de p	Lment	Poliens
1	335,494	111,831	7,070	,0005	21,310	,076
2	411,359	411,359	28,008	<,0001	26,606	1,330
3	231,272	77,001	4,874	,0031	14,821	,090
Résult	711,807	18,418				

FIG. 93A

FIG. 93B

Tаблица для выявления TGFBB14
Столбцы: Группы * Органы

	Номенклатура	Масса тела	Дев.	Std.	Eff.	Std.
T, R	9	3.375	3.363	1.121		
T, F	9	0.166	0.423	.808		
S, R	5	0.196	2.726	1.219		
S, F	5	6.030	1.772	.792		
13*, R	6	8.434	2.810	1.123		
13*, F	5	10.608	7.477	3.317		
13*5, R	5	7.217	2.611	1.078		
13*5, F	10	15.637	5.412	1.714		

OBLON ET AL (703) 413-3000
DOCKET # 2639961 ISOX PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

Taux PLSD de flétrir pour TCBW14

Enrat : Groupe

Nombre de significativité : 5 %

	Difl. moy.	Difl.	CIE.	Volum g
T, S	-1,801	3,159	.2571	\$
T, 13°	-5,300	3,159	.0015	\$
T, 13'S	-7,204	2,800	<.0001	\$
S, 13°	-3,508	3,582	.0647	
S, 13'S	-4,454	3,270	.0016	\$
13°, 13'S	-1,956	3,270	.2347	

FIG. 93C

Test PLSD de Fisher pour TCRBV14

Effet : Origine

Niveau de significativité : 5 %

	Dif. moy.	Dif. crit.	Valeur p
R, F	-8,467	2,210	<.0001 S

Courbe des interactions pour TCRBV14

Effet : Groupe * Origane

Barres d'erreur: ± 1 Erreur(s) standard

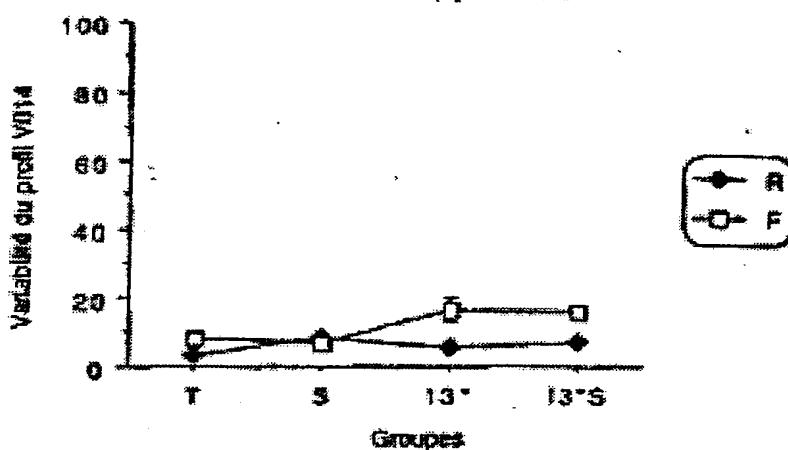


FIG. 93D

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

FIG. 93E

Tableau ANOVA pour TCHEV15

	df	Somme des carrés	Carré moyen	Valeur de F	Valeur de α	Lambda	Présence
Groupe	3	163,813	51,271	1,141	.3429	.3426	.279
Organe	1	1226,163	1226,163	27,288	<.0001	.27,288	.1,000
Groupe * Organe	3	87,328	29,109	.648	.5684	1,944	.171
Residu	44	1070,302	44,916				

OBLON ET AL (703) 413-3000
 DOCKET # 26396US0X PCT
 INV. Alexis COLLETTE et al.
 USSN 10/519,950
 Reply to O.A. DATED NOVEMBER 1, 2007
 REPLACEMENT SHEET(S)

Tableau de moyennes pour TCRATE5
Effet : Groupe * Organisme

	Nom du	Moyenne	Std.	Err.	Std.
T, R	9	7.654	8.273	2.758	
T, F	8	16.668	6.044	2.137	
S, R	5	8.518	2.137	.956	
S, F	5	16.284	3.618	1.616	
I3*, R	5	9.270	2.657	1.188	
I3*, F	5	20.150	11.402	5.140	
I3S, R	8	9.082	4.892	2.188	
I3S, F	10	23.018	7.072	2.236	

FIG. 93F

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

est PLSD de Flétcher pour Tchèvres

Nom : Groupe

seuil de significativité : 5 %

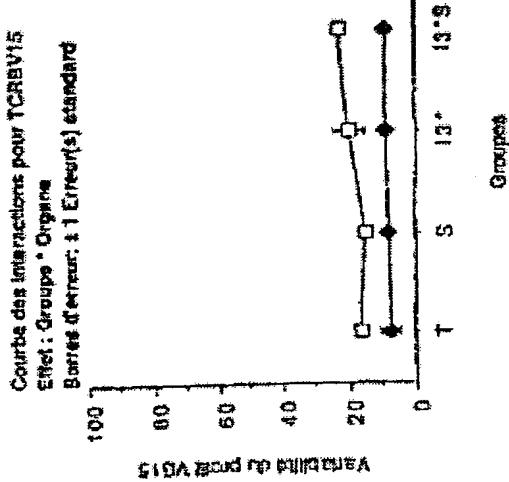
	Diff. moy.	Diff. crit.	Valeur p
T, \$	,101	5,363	,9700
T, 13*	-2,708	5,363	,3161
T, 13'S	-0,424	4,786	,6097
S, 13*	-2,808	6,040	,3537
S, 13'G	-6,525	5,514	,0215
G*, 13'S	-3,718	5,514	,1814

FIG. 93G

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

FIG. 93H

Test LSD de Fisher pour TCREV15
Effet : Organe
Niveau de signification : 5 %
Diff. crit. t 1 (Effect(s) standard)
 $F_{t, F} = 10.786$ Diff. crit. Valeur p
3.757 <0.0001 5



OBLON ET AL (703) 413-3000
 DOCKET # 26396US0X PCT
 INV. Alexis COLLETTE et al.
 USSN 10/519,950
 Reply to O.A. DATED NOVEMBER 1, 2007
 REPLACEMENT SHEET(S)

Tableau ANOVA pour TGTBV20

	df	Somme des carrés	Carré moyen	Valeur de F	Valeur de p	Lambida	PValue
Groups	3	326,863	108,888	1,807	,1423	5,722	,450
Organe	1	586,101	586,101	10,301	,0025	10,301	,698
Groups * Organe	3	262,286	87,429	1,531	,2197	4,584	,368
Residual	44	2512,080	57,003				

FIG. 94A

OBLON ET AL (703) 413-3000
DOCKET # 263996USDX PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007'
REPLACEMENT SHEET(S)

FIG. 94B

Tableau de moyennes pour TGNBv20						
Effet : Groupe * Organe						
	Nombre	Moyenne	Dév. Std.	Eff. Std.		
T, R	9	11,820	7,851	2,617		
T, F	8	14,773	7,748	2,738		
E, R	5	16,432	4,136	1,850		
S, F	6	20,563	4,170	1,854		
13*, R	8	11,612	3,093	1,383		
13*, F	6	26,895	13,297	5,947		
13*Si, F	5	11,495	4,683	2,094		
13*Si, F	10	17,170	8,304	2,626		

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

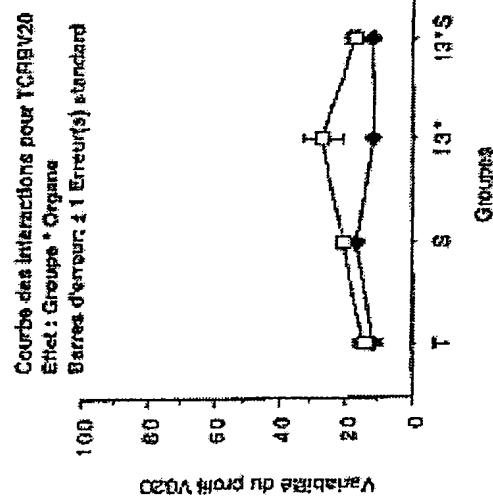
FIG. 94C

Test pLSQ de Fisher pour TCRIV21
Efect : Groupes
Niveau de signification : 5 %

T, S	Diff. moy.	Diff. crit.	Valeur p
T, S	-5,203	6,069	,0063
T, I3*	-0,044	0,069	0,509
T, I3'S	-2,068	5,384	,4438
S, I3*	-,761	0,810	,8228
S, I3'S	3,214	6,217	,3031
I3*, I3'S	3,976	6,217	,2942

FIG. 94D

Test PLSD de Fisher pour TCRBV20
 Effet : Organes
 Niveau de signification : 5 %
 E.M. moy. Diff. crit. Valeur P
 R F .6.158 4.236 .0054 \$



- Seul sera détaillé ici les résultats concernant l'indice Gorochov. Les autres indices ne donnent dans cette étude aucun résultat pertinent (nature plurimodale des profils de certaines unités expérimentales).
- ❖ Le type d'infection influe en moyenne sur l'indice Gorochov observé pour les différents Vb étudiés.
- ❖ L'organe influe en moyenne sur l'indice Gorochov observée pour les différents Vb étudiés.
- ❖ L'indice Gorochov observé, en moyenne, sur les différents groupes n'est pas la même selon l'organe considéré.

Résultats de l'ANOVA correspondante: (@ : avec effet d'interaction)

	Effet groupe OUI	Effet groupe NON
Effet organe OUI	5.1 {F3* (222,225) FS (222,225,228)} 5.2 {RS (216) F3* (213) FS (216,219) F3*S (216)} 7 8.1 {RS (231) FS (231,228)} 8.3 @ P>>R pour le groupe I3*S. 14 @ P>>R pour les groupes I3* et I3*S.	2 6 10 {F3*S (138)} 11 12@ P>>R pour les groupes I3* et I3*S. 13 {F3*S (168)} 15 {RS (174), F3*S(177)} 16 20
Effet organe NON	3 @ P>>R pour le groupe I3*S. 9 {F3*(144,147,150,153) F3*S(153)} 18	1 4 8.2

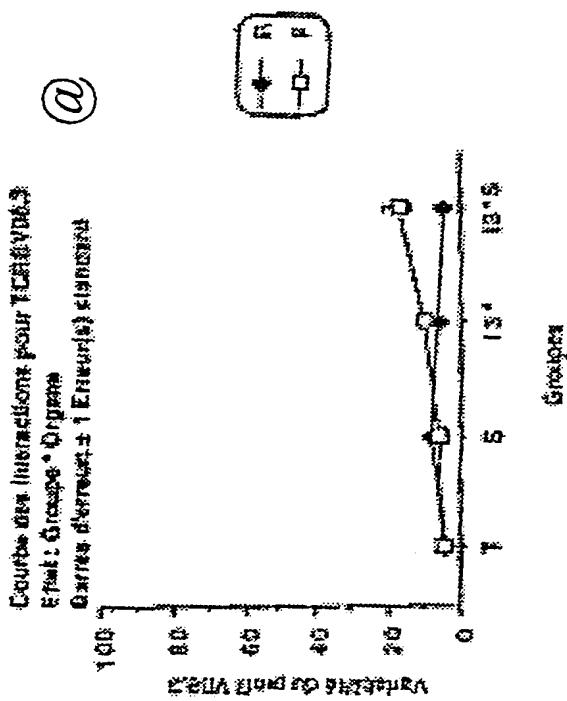
Rq. Les Vb pour lesquels l'indice d'oligoclonalité de certains pics est supérieur au seuil de celui du groupe témoin sont suivis, entre parenthèses des groupes concernés.

FIG. 95A

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950

Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

FIG. 95B



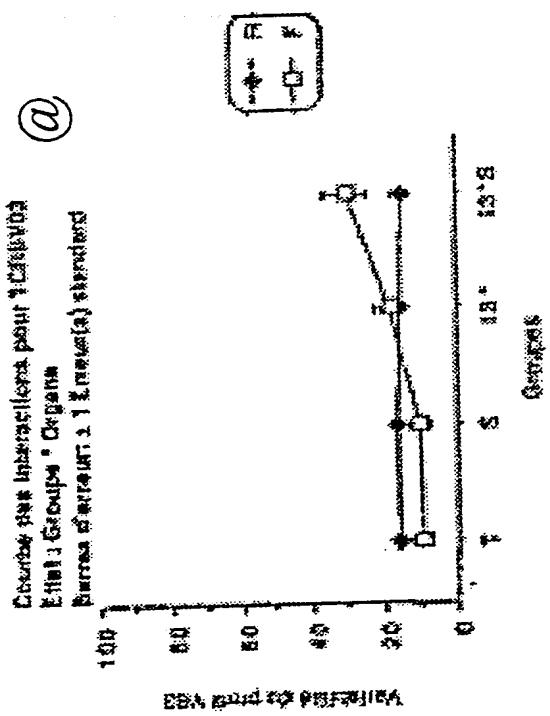
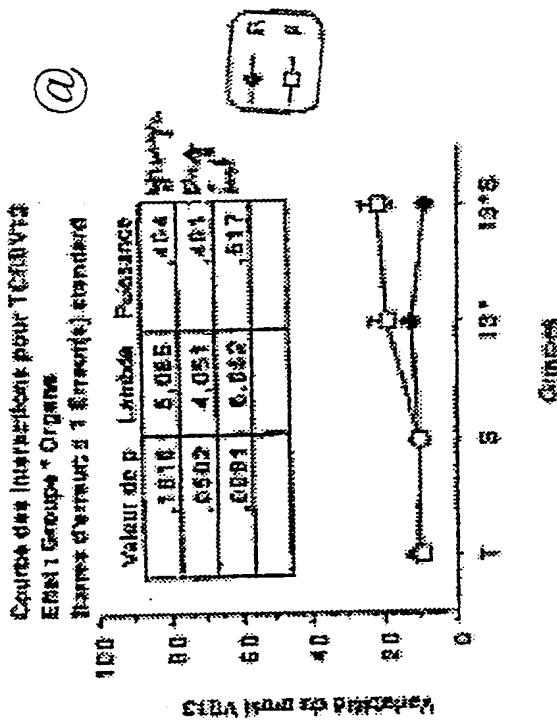


FIG. 95C

FIG. 95D



OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT

INV. Alexis COLLETTE et al.

USSN 10/519,950

Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

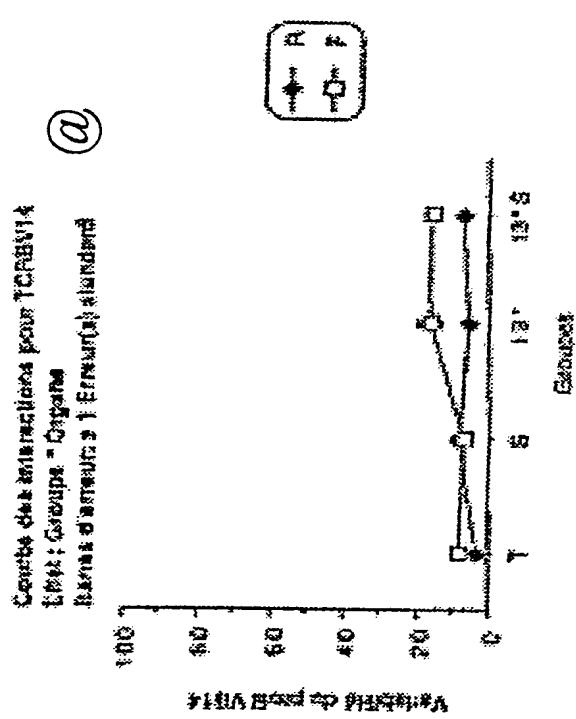


FIG. 95E

OBLON ET AL (703) 413-3000
DOCKET # 26396US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

FIG. 95F

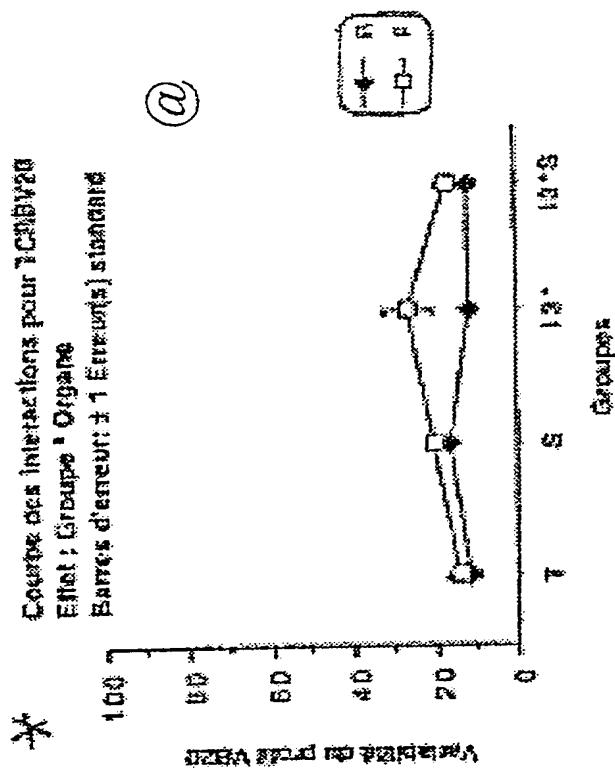


FIG. 95G

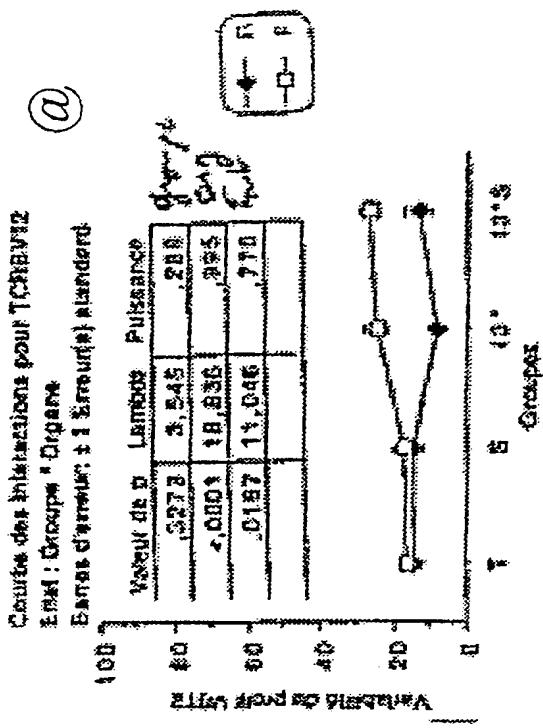
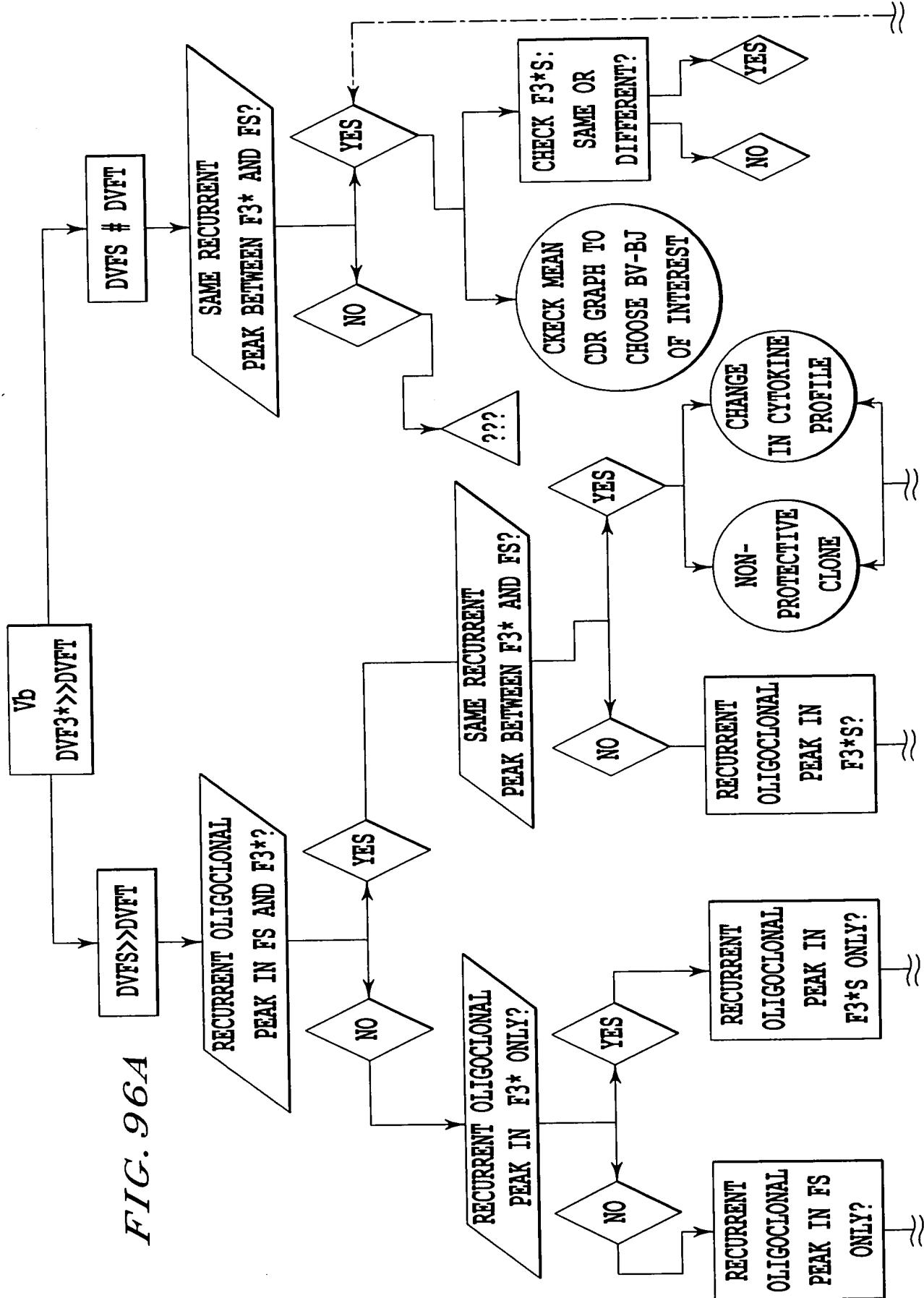


FIG. 96A



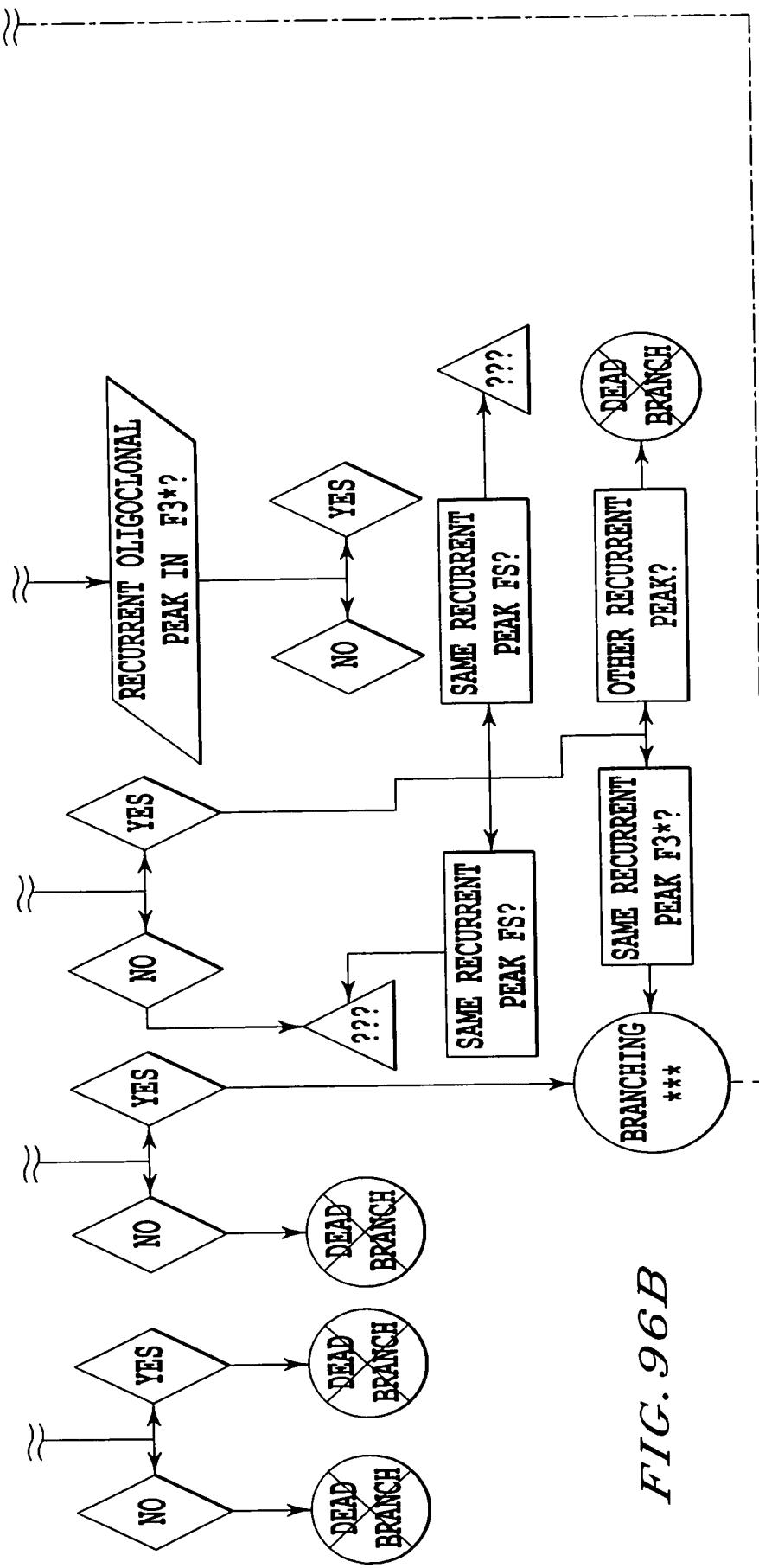


FIG. 96B

Canonical Scores Plot

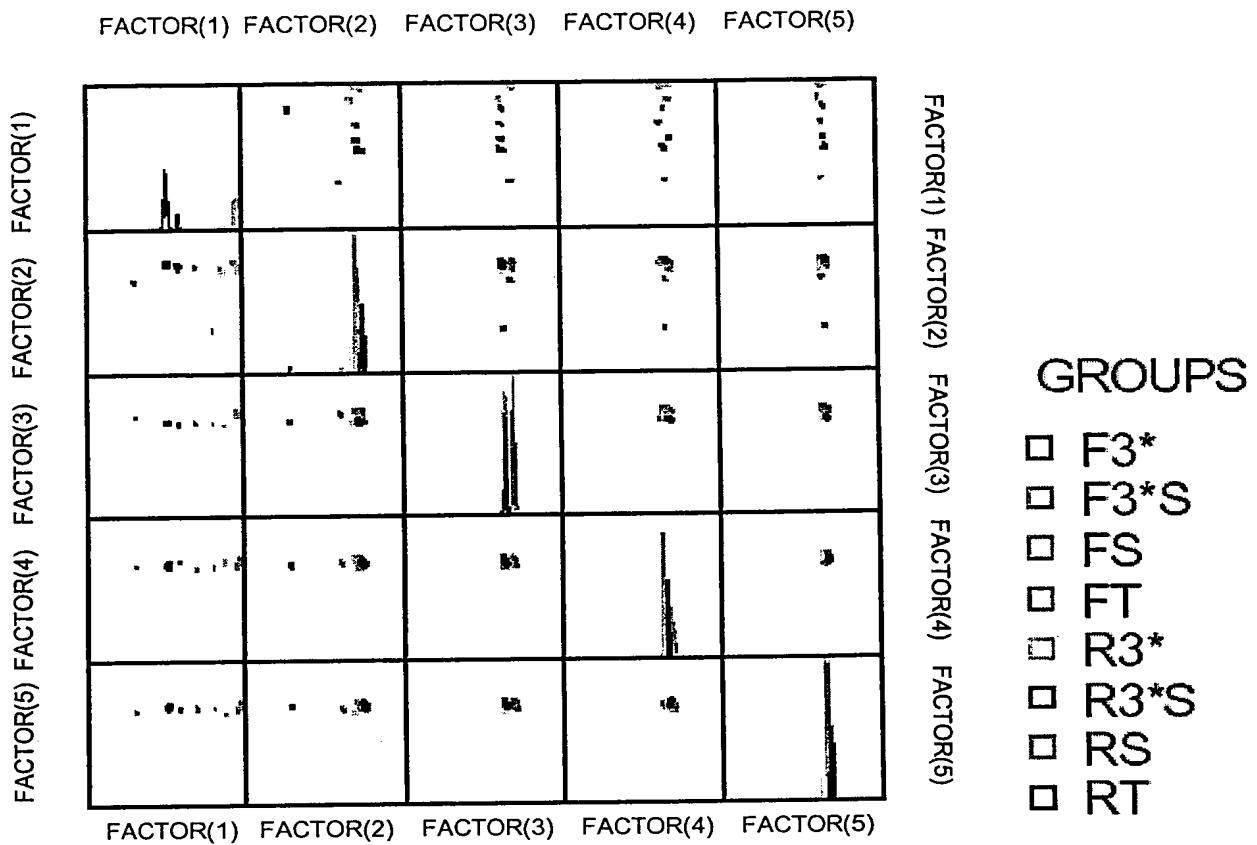


FIG. 97

SYSTAT Rectangular file C:\Utilisateurs\OGp8586\Pr81OG290802.SYD,
 created Thu Aug 29, 2002 at 15:24:34, contains variables:

CASE\$	GROUPS\$	TCRBV01_	TCRBV01_	TCRBV01_
TCRBV01_	TCRBV01_	TCRBV01_	TCRBV01_	TCRBV01_
TCRBV02_	TCRBV02_	TCRBV02_	TCRBV02_	TCRBV02_
TCRBV02_	TCRBV03_	TCRBV03_	TCRBV03_	TCRBV03_
TCRBV03_	TCRBV03_	TCRBV03_	TCRBV03_	TCRBV03_
TCRBV04_	TCRBV04_	TCRBV04_	TCRBV04_	TCRBV04_
TCRBV04_	TCRBV04_	TCRBV04_	TCRBV04_	TCRBV04_
TCRBV051_	TCRBV051_	TCRBV051_	TCRBV051_	TCRBV051_
TCRBV052_	TCRBV052_	TCRBV052_	TCRBV052_	TCRBV052_
TCRBV052_	TCRBV052_	TCRBV06_	TCRBV06_	TCRBV06_
TCRBV06_	TCRBV06_	TCRBV06_	TCRBV06_	TCRBV06_
TCRBV07_	TCRBV07_	TCRBV07_	TCRBV07_	TCRBV07_
TCRBV07_	TCRBV07_	TCRBV081_	TCRBV081_	TCRBV081_
TCRBV081_	TCRBV081_	TCRBV081_	TCRBV081_	TCRBV082_
TCRBV082_	TCRBV082_	TCRBV082_	TCRBV082_	TCRBV082_
TCRBV083_	TCRBV083_	TCRBV083_	TCRBV083_	TCRBV083_
TCRBV083_	TCRBV083_	TCRBV083_	TCRBV09_	TCRBV09_
TCRBV09_	TCRBV09_	TCRBV09_	TCRBV09_	TCRBV09_
TCRBV09_	TCRBV09_	TCRBV10_	TCRBV10_	TCRBV10_
TCRBV10_	TCRBV10_	TCRBV10_	TCRBV10_	TCRBV11_
TCRBV11_	TCRBV11_	TCRBV11_	TCRBV11_	TCRBV11_
TCRBV11_	TCRBV11_	TCRBV11_	TCRBV12_	TCRBV12_
TCRBV12_	TCRBV12_	TCRBV12_	TCRBV12_	TCRBV12_
TCRBV13_	TCRBV13_	TCRBV13_	TCRBV13_	TCRBV13_
TCRBV13_	TCRBV13_	TCRBV13_	TCRBV14_	TCRBV14_
TCRBV14_	TCRBV14_	TCRBV14_	TCRBV14_	TCRBV14_
TCRBV15_	TCRBV15_	TCRBV15_	TCRBV15_	TCRBV15_
TCRBV15_	TCRBV15_	TCRBV15_	TCRBV16_	TCRBV16_
TCRBV16_	TCRBV16_	TCRBV16_	TCRBV16_	TCRBV16_
TCRBV16_	TCRBV18_	TCRBV18_	TCRBV18_	TCRBV18_
TCRBV18_	TCRBV18_	TCRBV18_	TCRBV18_	TCRBV18_
TCRBV20_	TCRBV20_	TCRBV20_	TCRBV20_	TCRBV20_
TCRBV20_	TCRBV20_	TCRBV20_	TCRBV20_	TCRBV20_

Latent Roots (Eigenvalues)

1	2	3	4	5
806.097	574.767	525.021	474.758	360.278
6	7	8	9	10
326.711	312.488	234.426	220.247	205.757
* 11	12	13	14	15
197.164	187.097	166.789	160.829	147.404
16	17	18	19	20
130.104	128.438	120.749	108.967	98.134
21	22	23	24	25

FIG.98A

FIG. 98B

90.690	78.013	76.711	61.271	59.256
26	27	28	29	30
50.362	48.663	39.763	37.130	32.355
31	32	33	34	35
29.161	26.169	24.054	21.550	20.080
36	37	38	39	40
18.509	17.875	15.007	13.936	12.903
41	42	43	44	45
11.317	9.508	8.822	8.187	7.641
46	47	48	49	50
6.640	5.734	4.707	4.103	3.624
51	52	53	54	55
3.345	2.374	0.000	0.000	0.000
56	57	58	59	60
0.000	0.000	0.000	0.000	0.000
61	62	63	64	65
0.000	0.000	0.000	0.000	0.000
66	67	68	69	70
0.000	0.000	0.000	0.000	0.000
71	72	73	74	75
0.000	0.000	0.000	0.000	0.000
76	77	78	79	80
0.000	0.000	0.000	0.000	0.000
81	82	83	84	85
0.000	0.000	0.000	0.000	0.000
86	87	88	89	90
0.000	0.000	0.000	0.000	0.000
91	92	93	94	95
0.000	0.000	0.000	0.000	0.000
96	97	98	99	100
0.000	0.000	0.000	0.000	0.000
101	102	103	104	105

FIG. 98C

0.000	0.000	0.000	0.000	0.000
106	107	108	109	110
0.000	0.000	0.000	0.000	0.000
111	112	113	114	115
0.000	0.000	0.000	0.000	0.000
116	117	118	119	120
0.000	0.000	0.000	0.000	0.000
121	122	123	124	125
0.000	0.000	0.000	0.000	0.000
126	127	128	129	130
0.000	0.000	0.000	0.000	0.000
131	132	133	134	135
0.000	0.000	0.000	0.000	0.000
136	137	138	139	140
0.000	0.000	0.000	0.000	0.000
141	142	143	144	145
0.000	0.000	0.000	0.000	0.000
146	147	148	149	150
0.000	0.000	0.000	0.000	0.000
151	152	153	154	155
0.000	0.000	0.000	0.000	0.000
156	157	158	159	160
0.000	0.000	0.000	0.000	0.000
161	162	163	164	165
0.000	0.000	0.000	0.000	0.000
166	167	168	169	170
0.000	0.000	0.000	0.000	0.000
171	172	173	174	175
0.000	0.000	0.000	0.000	0.000
176	177	178	179	180
0.000	0.000	0.000	0.000	0.000
181	182	183	184	185

FIG. 98D

0.000	0.000	0.000	0.000	0.000
186	187	188	189	190
0.000	0.000	0.000	0.000	0.000
191	192	193		
0.000	0.000	0.000		

Component loadings

	1	2	3	4	5
TCRBV01_6	-0.075	-0.020	-0.031	0.142	0.070
TCRBV01_7	0.586	0.776	-0.084	0.178	0.101
TCRBV01_8	-2.381	-1.196	4.073	-4.774	2.594
TCRBV01_9	1.202	2.269	1.717	2.764	1.996
TCRBV01_10	3.454	2.257	2.246	1.329	1.040
TCRBV01_11	0.055	2.659	-0.708	1.386	0.074
TCRBV01_12	-0.258	1.305	-0.889	0.102	-0.044
TCRBV01_13	-0.223	0.178	-0.392	0.010	-0.016
TCRBV01_14	-0.021	0.016	-0.050	-0.090	-0.108
TCRBV02_6	0.750	-0.283	-0.629	-0.136	-0.988
TCRBV02_7	0.480	0.642	0.637	0.089	0.736
TCRBV02_8	0.059	0.586	0.088	-0.181	-1.461
TCRBV02_9	1.130	0.110	0.203	-0.738	0.606
TCRBV02_10	-0.113	-0.187	0.290	-0.013	0.307
TCRBV02_11	-0.724	-0.097	1.786	-0.160	0.175
TCRBV02_12	-0.450	-0.019	0.601	-0.296	0.196
TCRBV02_13	-0.236	-0.160	0.201	0.030	0.014
TCRBV03_4	-0.023	-0.015	-0.082	-0.003	0.061
TCRBV03_5	-0.120	-0.002	-0.121	-1.112	0.066
TCRBV03_6	2.225	0.178	-0.733	-0.785	0.612
TCRBV03_7	2.053	1.677	-0.686	1.085	1.279
TCRBV03_8	3.224	2.522	-0.052	-0.044	1.981
TCRBV03_9	4.341	2.926	-1.482	-1.136	4.894
TCRBV03_10	-3.235	0.499	3.479	2.027	0.546
TCRBV03_11	-5.143	0.869	1.720	1.589	-1.392
TCRBV03_12	-0.448	0.066	1.408	2.556	-2.194
TCRBV03_13	-0.536	-0.476	2.430	2.163	0.005
TCRBV04_6	0.012	-0.001	-0.019	-0.011	0.049
TCRBV04_7	1.152	-0.155	-0.030	-0.668	0.155
TCRBV04_8	1.873	0.011	0.527	-0.928	0.161
TCRBV04_9	4.587	-1.410	0.450	-1.396	0.093
TCRBV04_10	5.214	-0.729	-0.519	-0.539	-0.619
TCRBV04_11	-2.756	0.589	-1.756	1.854	1.304
TCRBV04_12	-3.817	0.894	-0.456	1.589	-2.504
TCRBV04_13	-3.121	1.805	0.381	-2.431	0.426
TCRBV04_14	-3.131	-1.158	1.410	-0.025	-0.070
TCRBV04_15	-0.012	0.154	0.012	-0.095	0.048
TCRBV051_5	0.174	0.196	-0.112	0.178	0.642
TCRBV051_6	0.215	-0.029	0.032	-0.818	1.006
TCRBV051_7	-0.042	-0.512	-0.317	6.584	0.181
TCRBV051_8	5.708	-11.263	7.492	3.037	-1.682
TCRBV051_9	0.294	1.095	-1.810	-2.022	-1.555
TCRBV051_10	-0.617	5.252	-3.907	-6.363	-1.086
TCRBV051_11	-2.015	2.799	2.297	-1.023	-0.729
TCRBV051_12	-0.959	3.191	-0.695	-0.185	-0.127
TCRBV051_13	0.084	0.240	-0.060	-0.436	-0.045
TCRBV052_6	0.340	0.857	-0.295	0.375	-0.707
TCRBV052_7	0.742	2.607	0.258	3.420	-3.444
TCRBV052_8	-2.966	5.924	6.078	-0.675	0.061
TCRBV052_9	1.864	-0.893	1.072		

TCRBV052_10	1.482	-2.328	-2.449	-0.869	-0.364
TCRBV052_11	1.183	-2.592	-0.353	-1.828	1.509
TCRBV052_12	0.184	-2.206	-1.170	-0.621	0.008
TCRBV052_13	0.013	-0.400	-0.221	-0.073	-0.320
TCRBV06_5	0.028	0.045	-0.011	-0.063	-0.023
TCRBV06_6	0.893	0.443	-0.309	0.021	0.249
TCRBV06_7	2.017	1.415	0.546	0.161	-0.133
TCRBV06_8	2.766	1.952	1.966	0.511	0.512
TCRBV06_9	3.375	1.408	2.821	-3.418	2.216
TCRBV06_10	-2.099	2.397	-0.216	1.039	1.658
TCRBV06_11	-2.924	1.046	1.312	1.670	0.587
TCRBV06_12	-1.604	-0.326	-0.042	1.137	0.619
TCRBV06_13	-0.114	-0.137	-0.185	0.152	0.181
TCRBV07_5	0.008	0.028	-0.008	-0.007	-0.006
TCRBV07_6	0.837	0.060	1.858	1.278	-1.079
TCRBV07_7	1.214	-0.479	3.067	-1.119	-0.853
TCRBV07_8	1.397	2.345	0.393	0.465	1.264
TCRBV07_9	4.717	2.550	2.366	-0.826	1.030
TCRBV07_10	-0.442	2.391	-0.665	0.761	3.003
TCRBV07_11	-3.185	0.834	-0.280	0.043	1.876
TCRBV07_12	-1.960	0.518	-0.716	0.657	0.453
TCRBV07_13	-0.246	-0.005	-0.134	-0.042	0.180
TCRBV081_5	-0.014	-0.039	0.066	0.071	0.088
TCRBV081_6	-0.233	0.804	-0.102	-0.341	0.688
TCRBV081_7	0.704	-0.501	0.138	-0.835	2.223
TCRBV081_8	0.540	-0.086	1.200	0.121	0.646
TCRBV081_9	3.830	-4.333	-0.332	-1.541	-0.526
TCRBV081_10	-1.574	1.153	-1.559	2.277	-1.302
TCRBV081_11	-2.194	2.038	0.379	0.551	-0.926
TCRBV081_12	-1.059	0.963	0.211	-0.303	-0.892
TCRBV082_4	0.424	-0.358	-0.028	-0.768	-0.292
TCRBV082_5	1.519	-1.085	-0.387	-2.354	-0.715
TCRBV082_6	1.924	-0.687	0.185	-1.745	-0.622
TCRBV082_7	4.198	-2.368	1.356	-4.012	-2.978
TCRBV082_8	-1.227	1.076	-0.107	1.819	-0.476
TCRBV082_9	-3.201	2.555	-0.558	3.505	2.871
TCRBV082_10	-2.699	0.852	-0.631	2.618	1.452
TCRBV082_11	-0.938	0.015	0.169	0.937	0.760
TCRBV083_4	-0.014	-0.041	0.169	0.163	-0.147
TCRBV083_5	-0.068	0.075	0.105	-0.232	-0.108
TCRBV083_6	0.507	-0.204	-0.849	-0.544	-0.608
TCRBV083_7	-0.108	-0.302	1.102	-0.398	1.583
TCRBV083_8	0.297	0.863	0.017	-1.155	1.218
TCRBV083_9	0.473	0.115	-1.272	0.152	0.523
TCRBV083_10	-0.565	0.494	-0.172	0.803	-0.014
TCRBV083_11	-0.472	-0.205	1.392	0.772	-1.418
TCRBV083_12	-0.050	-0.797	-0.492	0.439	-1.028
TCRBV09_5	-0.130	-0.039	0.139	0.133	0.079
TCRBV09_6	0.040	-0.080	-0.402	0.148	0.444
TCRBV09_7	0.934	-0.535	-0.164	-0.246	2.171
TCRBV09_8	0.369	-0.995	2.707	4.763	4.320
TCRBV09_9	2.212	-0.760	4.327	2.838	3.010
TCRBV09_10	2.774	3.177	0.449	-2.120	3.543
TCRBV09_11	-1.487	2.603	6.703	-3.932	-5.167
TCRBV09_12	-0.264	3.204	-0.360	-1.573	-1.144
TCRBV09_13	0.317	0.847	-0.183	-0.596	-0.481
TCRBV09_14	0.100	0.111	-0.013	-0.204	-0.066
TCRBV09_15	0.090	-0.012	0.013	-0.019	-0.014
TCRBV10_6	0.486	0.626	-0.103	-0.518	-0.360
TCRBV10_7	0.830	1.733	1.173	1.028	-1.646
TCRBV10_8	1.789	1.616	-0.162	0.700	-0.176
TCRBV10_9	-3.735	-1.632	0.512	-2.124	0.498
TCRBV10_10	-0.813	-1.518	0.188	0.424	0.368
TCRBV10_11	1.331	-0.607	-0.813	0.275	0.931

FIG. 99A

TCRBV10_12	0.123	-0.210	-0.756	0.200	0.378
TCRBV10_13	-0.011	-0.007	-0.040	0.015	0.007
TCRBV11_5	0.054	-0.171	-0.024	0.112	0.227
TCRBV11_6	0.645	0.491	0.188	-0.714	0.376
TCRBV11_7	1.025	1.292	1.255	0.194	-0.196
TCRBV11_8	0.761	1.916	2.296	-1.473	-0.143
TCRBV11_9	3.448	1.820	5.538	-0.829	0.968
TCRBV11_10	-0.317	1.741	0.140	1.767	1.806
TCRBV11_11	-1.405	1.169	-1.376	0.594	1.496
TCRBV11_12	-1.177	0.105	-1.167	1.265	0.817
TCRBV11_13	-0.626	-0.073	-0.722	0.205	0.474
TCRBV11_14	-0.051	-0.033	-0.180	0.066	0.030
TCRBV11_15	-0.019	-0.012	-0.067	0.024	0.011
TCRBV12_4	-0.057	0.257	0.160	0.162	-0.221
TCRBV12_5	1.293	0.663	2.995	0.630	-3.022
TCRBV12_6	2.748	1.366	1.113	-1.987	1.080
TCRBV12_7	3.631	0.361	0.059	-2.201	1.916
TCRBV12_8	1.486	-0.394	-3.294	-0.997	0.698
TCRBV12_9	-4.150	-1.433	-2.887	2.225	-0.539
TCRBV12_10	-1.210	-0.525	1.600	1.272	-0.263
TCRBV12_11	-3.118	-0.274	0.050	0.649	0.371
TCRBV12_12	-0.622	-0.022	0.204	0.248	-0.021
TCRBV13_5	-0.020	-0.007	-0.107	0.019	0.053
TCRBV13_6	0.236	0.737	0.059	-1.254	-0.553
TCRBV13_7	1.220	-0.566	-1.444	-1.137	2.591
TCRBV13_8	1.117	-0.003	-1.307	0.057	1.241
TCRBV13_9	0.093	0.101	4.513	4.666	-4.488
TCRBV13_10	-2.026	0.461	-0.842	-1.267	1.472
TCRBV13_11	-0.556	-0.611	-0.561	-1.254	-0.605
TCRBV13_12	-0.312	-0.035	-0.263	0.081	0.148
TCRBV13_13	0.248	-0.076	-0.048	0.088	0.140
TCRBV14_5	0.002	0.043	0.128	-0.072	-0.191
TCRBV14_6	0.560	-0.013	-0.866	-0.723	0.361
TCRBV14_7	-0.886	0.111	0.110	-0.734	-0.876
TCRBV14_8	2.788	-0.379	-0.601	-0.066	-0.369
TCRBV14_9	0.982	-0.783	-0.866	3.516	0.367
TCRBV14_10	-1.647	0.192	1.058	-1.735	0.565
TCRBV14_11	-1.420	0.784	1.203	-0.363	-0.069
TCRBV14_12	-0.314	0.072	-0.065	0.145	0.144
TCRBV14_13	-0.064	-0.026	-0.101	0.031	0.067
TCRBV15_4	-0.048	0.005	-0.098	0.069	0.058
TCRBV15_5	0.876	-1.126	-0.311	0.027	1.451
TCRBV15_6	1.635	0.164	0.742	-0.557	1.197
TCRBV15_7	2.958	1.462	1.759	0.217	1.348
TCRBV15_8	4.711	2.103	2.764	0.244	1.387
TCRBV15_9	-1.609	3.526	3.496	0.975	-0.027
TCRBV15_10	-3.220	1.441	-1.397	0.340	0.671
TCRBV15_11	-2.089	0.535	-1.100	0.108	-0.046
TCRBV15_12	-0.876	0.132	0.026	-0.212	-0.172
TCRBV16_5	-0.004	0.063	0.143	0.057	-0.221
TCRBV16_6	0.740	-0.458	0.685	0.961	0.315
TCRBV16_7	4.029	0.612	0.870	0.467	0.419
TCRBV16_8	5.524	3.170	-1.084	0.257	-1.066
TCRBV16_9	6.852	5.592	-1.963	1.947	-1.891
TCRBV16_10	0.165	3.517	0.669	2.334	-1.033
TCRBV16_11	-3.812	-1.117	3.607	1.146	4.580
TCRBV16_12	-8.256	-2.143	5.834	-6.750	1.526
TCRBV16_13	-0.058	-0.024	0.040	0.085	-0.063
TCRBV18_3	0.030	-0.017	-0.003	-0.005	0.009
TCRBV18_4	0.043	-0.147	0.188	-0.730	0.278
TCRBV18_5	0.125	0.793	1.558	-0.021	-0.578
TCRBV18_6	-1.454	1.826	3.098	-1.120	-0.762
TCRBV18_7	-0.152	3.168	2.247	1.449	1.188

FIG. 99B

TCRBV18_8	1.814	5.078	-0.855	-0.154	3.140
TCRBV18_9	-1.031	1.918	0.229	1.614	3.512
TCRBV18_10	-0.094	1.019	-0.043	1.279	1.501
TCRBV18_11	-0.786	-0.011	-0.531	0.647	1.080
TCRBV18_12	-0.061	0.022	0.078	0.163	-0.112
TCRBV18_13	0.049	-0.009	-0.017	-0.010	0.025
TCRBV20_5	0.006	-0.081	0.103	0.066	0.252
TCRBV20_6	0.820	-0.019	0.545	0.203	-0.182
TCRBV20_7	1.733	0.721	0.380	0.515	-0.112
TCRBV20_8	3.344	1.243	1.094	-0.664	0.208
TCRBV20_9	3.148	2.159	1.851	1.730	1.856
TCRBV20_10	-0.717	3.433	1.768	-1.723	0.168
TCRBV20_11	-3.744	1.517	1.836	0.103	0.433
TCRBV20_12	-1.968	0.750	-0.669	0.580	0.447
TCRBV20_13	-0.245	-1.482	-0.948	0.345	2.751
TCRBV20_14	-0.039	0.004	-0.079	0.056	0.047
	6	7	8	9	10
TCRBV01_6	0.021	-0.137	-0.052	-0.005	-0.092
TCRBV01_7	-0.643	0.055	0.055	0.226	0.238
TCRBV01_8	0.786	-2.649	0.542	2.361	-0.491
TCRBV01_9	0.085	0.952	-0.612	2.294	0.205
TCRBV01_10	-0.117	1.597	-0.377	-1.762	-0.096
TCRBV01_11	2.327	0.810	0.368	-1.797	1.295
TCRBV01_12	0.734	0.415	-0.371	-0.381	0.648
TCRBV01_13	0.489	-0.254	0.165	-0.219	0.124
TCRBV01_14	0.075	-0.054	0.026	-0.037	-0.002
TCRBV02_6	-0.411	-0.685	-0.233	0.366	0.110
TCRBV02_7	-0.375	-0.363	0.367	0.450	-0.673
TCRBV02_8	-1.359	-0.407	-0.058	-0.717	0.158
TCRBV02_9	-0.206	0.488	-2.104	0.418	0.067
TCRBV02_10	-1.294	-0.476	-0.688	-0.459	0.204
TCRBV02_11	-0.075	0.083	0.450	0.138	-0.089
TCRBV02_12	0.488	0.385	-0.049	0.021	-0.524
TCRBV02_13	0.142	-0.078	0.275	0.192	0.082
TCRBV03_4	0.080	0.027	0.053	-0.011	0.017
TCRBV03_5	0.060	0.097	0.112	-0.004	-0.062
TCRBV03_6	-0.107	1.055	-0.342	0.821	-0.548
TCRBV03_7	0.146	1.148	-0.772	0.402	-0.358
TCRBV03_8	0.035	1.190	-1.144	2.683	-0.290
TCRBV03_9	0.647	1.593	-1.654	1.464	0.050
TCRBV03_10	2.574	-2.731	1.180	-0.028	-0.095
TCRBV03_11	1.653	-1.677	-2.411	-1.695	2.068
TCRBV03_12	0.457	0.061	1.460	-1.841	0.257
TCRBV03_13	-1.787	-0.027	3.263	-1.111	0.788
TCRBV04_6	0.037	0.015	0.031	0.040	0.044
TCRBV04_7	-0.299	0.208	-0.066	0.153	0.939
TCRBV04_8	0.213	0.582	-0.761	-0.070	1.250
TCRBV04_9	-0.141	1.267	-0.328	-1.489	1.663
TCRBV04_10	-0.590	0.912	-0.715	-1.192	0.128
TCRBV04_11	0.112	-0.805	0.930	-0.875	-1.657
TCRBV04_12	0.160	0.155	0.849	0.034	-2.181
TCRBV04_13	0.079	-0.716	-0.245	3.168	-0.196
TCRBV04_14	0.515	-1.584	0.155	0.054	0.211
TCRBV04_15	-0.087	-0.034	0.150	0.177	-0.200
TCRBV051_5	-0.106	0.048	0.089	-0.068	0.171
TCRBV051_6	0.029	0.318	0.252	-0.142	0.301
TCRBV051_7	-0.159	0.221	0.309	0.500	1.070
TCRBV051_8	2.572	-2.042	-2.164	0.044	-0.762
TCRBV051_9	4.444	-1.496	-0.137	2.643	-0.465
TCRBV051_10	-1.104	-0.084	0.969	1.300	-1.749
TCRBV051_11	-0.987	0.698	2.606	-1.346	-0.209
TCRBV051_12	-1.048	0.469	-0.142	0.044	-1.542

FIG. 99C

TCRBV051_13	-0.111	0.030	0.013	-0.028	0.073
TCRBV052_6	-0.429	-0.125	0.159	0.032	-0.196
TCRBV052_7	-1.586	-1.674	-0.624	0.571	-0.045
TCRBV052_8	-4.403	-0.485	-3.190	0.378	0.467
TCRBV052_9	1.889	-2.483	-0.890	2.997	-5.603
TCRBV052_10	2.085	-1.036	1.997	0.374	0.520
TCRBV052_11	3.685	2.322	3.163	-1.554	1.262
TCRBV052_12	2.094	1.373	1.268	0.039	0.557
TCRBV052_13	0.194	0.267	-0.089	0.109	-0.072
TCRBV06_5	-0.028	0.012	-0.015	-0.010	0.028
TCRBV06_6	-0.054	-0.562	0.235	0.175	-0.085
TCRBV06_7	-0.102	-0.502	0.664	0.892	-0.794
TCRBV06_8	-1.117	0.072	1.946	-0.955	0.019
TCRBV06_9	3.021	-2.951	1.747	-1.565	-0.637
TCRBV06_10	2.419	1.433	-1.640	-0.765	1.583
TCRBV06_11	-0.259	1.838	-1.574	1.468	1.021
TCRBV06_12	-0.036	1.358	-1.405	1.428	0.635
TCRBV06_13	-0.086	0.037	-0.213	0.012	0.059
TCRBV07_5	-0.005	-0.002	0.019	0.017	-0.024
TCRBV07_6	-0.827	-0.235	1.877	-0.943	1.078
TCRBV07_7	3.084	0.756	-0.478	-1.146	0.282
TCRBV07_8	-1.780	-0.387	-1.115	2.083	1.386
TCRBV07_9	0.335	-2.246	-0.097	0.479	-1.363
TCRBV07_10	1.901	1.229	-1.259	-0.785	0.280
TCRBV07_11	1.186	0.419	0.927	0.775	0.062
TCRBV07_12	0.030	1.034	-0.156	0.279	0.165
TCRBV07_13	-0.167	0.167	0.027	-0.079	-0.040
TCRBV081_5	-0.009	0.090	0.005	-0.140	0.041
TCRBV081_6	-0.289	0.625	1.094	-0.524	0.273
TCRBV081_7	-1.016	2.906	1.137	-0.857	-0.546
TCRBV081_8	-1.066	2.816	0.724	-0.342	-0.803
TCRBV081_9	-2.867	0.115	-1.058	-0.081	-0.371
TCRBV081_10	3.775	-5.061	-0.414	0.308	0.164
TCRBV081_11	1.486	-1.138	-0.736	0.953	0.983
TCRBV081_12	-0.015	-0.355	-0.752	0.683	0.259
TCRBV082_4	0.055	-0.029	0.046	-0.051	0.638
TCRBV082_5	-0.344	-0.203	-0.521	0.137	1.641
TCRBV082_6	-0.074	-0.440	-0.570	0.468	1.114
TCRBV082_7	0.263	-0.594	-0.517	-0.195	2.755
TCRBV082_8	0.554	-0.492	-0.254	0.195	-1.583
TCRBV082_9	0.305	0.673	0.717	-0.634	-2.363
TCRBV082_10	-0.735	0.388	0.784	0.019	-1.785
TCRBV082_11	-0.024	0.696	0.315	0.061	-0.418
TCRBV083_4	-0.131	0.003	0.257	-0.085	0.044
TCRBV083_5	-0.025	-0.087	-0.036	0.450	0.165
TCRBV083_6	0.327	-0.057	0.164	0.304	-0.026
TCRBV083_7	0.946	0.272	1.107	-1.423	-0.272
TCRBV083_8	0.428	-0.485	-0.866	-0.517	-0.317
TCRBV083_9	-0.913	-0.250	0.379	0.158	-1.019
TCRBV083_10	-1.367	-0.538	-0.083	0.389	0.819
TCRBV083_11	0.537	1.008	-0.303	0.126	0.443
TCRBV083_12	0.197	0.136	-0.619	0.598	0.164
TCRBV09_5	-0.047	0.092	-0.073	-0.194	-0.105
TCRBV09_6	0.079	0.096	0.119	0.218	0.618
TCRBV09_7	-0.426	-0.792	-0.658	0.464	1.475
TCRBV09_8	-1.150	0.751	-0.059	2.114	2.512
TCRBV09_9	-1.427	-1.220	0.603	0.310	1.771
TCRBV09_10	-3.653	0.761	-1.931	-0.265	-0.570
TCRBV09_11	2.346	4.886	-2.610	-0.817	-1.496
TCRBV09_12	-0.794	-0.147	0.193	1.915	-2.329
TCRBV09_13	-0.370	-0.153	0.008	0.403	-0.513
TCRBV09_14	-0.142	-0.044	-0.045	0.034	-0.044
TCRBV09_15	-0.033	-0.053	-0.031	0.006	0.036
TCRBV10_6	-0.011	-0.025	0.240	-0.378	-0.486

FIG. 99D

TCRBV10_7	-0.846	-0.571	-0.083	-0.103	-0.801
TCRBV10_8	-1.940	-1.965	0.318	0.191	-1.208
TCRBV10_9	-3.228	-2.858	-3.466	-3.201	-0.140
TCRBV10_10	0.905	1.209	1.031	1.595	0.029
TCRBV10_11	3.868	3.072	1.212	0.989	1.470
TCRBV10_12	1.212	1.125	0.722	0.912	1.126
TCRBV10_13	0.039	0.013	0.026	-0.005	0.008
TCRBV11_5	-0.050	-0.045	-0.156	0.081	-0.219
TCRBV11_6	-0.178	-0.975	-0.254	0.425	0.322
TCRBV11_7	-0.707	-0.515	-0.275	0.313	0.285
TCRBV11_8	0.365	-1.932	-0.336	1.796	0.859
TCRBV11_9	1.232	1.065	-2.009	-1.357	-1.209
TCRBV11_10	0.552	0.504	1.077	0.352	0.806
TCRBV11_11	1.134	0.543	1.004	-0.589	0.380
TCRBV11_12	1.027	1.424	0.213	-0.171	0.292
TCRBV11_13	0.143	0.584	0.324	-0.137	0.260
TCRBV11_14	0.175	0.060	0.115	-0.023	0.038
TCRBV11_15	0.065	0.022	0.043	-0.009	0.014
TCRBV12_4	-0.150	0.055	-0.102	0.270	-0.033
TCRBV12_5	-1.571	0.588	3.528	-0.107	1.233
TCRBV12_6	-0.568	1.431	0.523	0.279	0.579
TCRBV12_7	-0.956	1.053	0.361	2.507	-0.079
TCRBV12_8	-0.159	0.382	-0.103	1.866	0.641
TCRBV12_9	-0.056	-3.527	-0.407	-0.837	0.557
TCRBV12_10	2.350	1.956	-2.592	-4.345	-3.795
TCRBV12_11	0.881	-1.674	-0.794	0.260	0.800
TCRBV12_12	0.230	-0.264	-0.413	0.107	0.098
TCRBV13_5	0.076	0.008	0.067	0.044	0.033
TCRBV13_6	2.347	1.421	-1.265	-0.081	-0.483
TCRBV13_7	0.890	-1.644	-0.824	0.685	-1.078
TCRBV13_8	-2.806	-0.933	0.717	0.080	0.151
TCRBV13_9	-1.570	0.847	2.456	1.181	0.257
TCRBV13_10	0.410	-0.242	-1.887	-1.004	0.312
TCRBV13_11	0.428	0.590	0.728	-0.956	0.598
TCRBV13_12	0.300	0.096	0.012	0.015	0.275
TCRBV13_13	-0.074	-0.145	-0.005	0.036	-0.065
TCRBV14_5	0.143	0.091	0.098	-0.168	0.061
TCRBV14_6	-0.006	-0.451	0.205	-0.471	-0.095
TCRBV14_7	0.196	-0.358	-1.411	-0.055	1.201
TCRBV14_8	0.723	0.278	-1.039	-0.522	-0.216
TCRBV14_9	-0.986	-0.709	0.892	1.919	-0.163
TCRBV14_10	-0.069	0.383	0.959	-0.075	0.459
TCRBV14_11	0.144	0.249	0.290	-0.350	-1.433
TCRBV14_12	-0.131	0.468	0.006	-0.219	0.121
TCRBV14_13	-0.014	0.049	0.000	-0.058	0.065
TCRBV15_4	0.085	0.146	0.111	0.076	0.114
TCRBV15_5	-0.014	0.965	-0.858	0.796	-2.141
TCRBV15_6	-0.782	0.032	0.709	0.119	0.178
TCRBV15_7	-0.568	-0.412	1.741	0.356	-0.017
TCRBV15_8	0.590	-0.164	0.529	1.953	0.471
TCRBV15_9	2.449	0.557	-1.023	-1.399	0.259
TCRBV15_10	1.173	0.101	-0.702	-0.744	1.992
TCRBV15_11	0.787	-0.388	-0.279	-0.434	0.660
TCRBV15_12	0.037	-0.102	-0.482	-0.042	0.311
TCRBV16_5	-0.149	-0.080	0.366	-0.042	-0.038
TCRBV16_6	-1.187	-0.135	0.822	-0.106	-0.203
TCRBV16_7	-0.990	-2.100	-0.183	-2.733	-1.300
TCRBV16_8	0.923	-2.155	-0.251	0.053	0.684
TCRBV16_9	6.027	-2.138	-0.724	0.202	0.053
TCRBV16_10	1.533	4.222	0.883	1.462	1.876
TCRBV16_11	0.283	3.477	1.545	0.794	-3.877
TCRBV16_12	0.862	-2.339	-0.839	3.805	1.543
TCRBV16_13	-0.014	0.144	-0.078	0.191	-0.021

FIG. 100A

TCRBV18_3	0.010	-0.005	0.011	0.004	0.026
TCRBV18_4	0.376	-0.071	0.845	0.676	-0.408
TCRBV18_5	0.044	-0.234	1.934	0.669	-0.082
TCRBV18_6	1.002	-2.737	2.759	0.137	-0.167
TCRBV18_7	-0.923	-2.518	4.985	-2.402	-0.768
TCRBV18_8	0.355	-3.888	-0.600	-3.218	0.983
TCRBV18_9	-1.719	0.752	-1.847	-1.847	2.425
TCRBV18_10	-0.495	0.068	-1.102	0.650	0.739
TCRBV18_11	-0.631	0.660	-0.391	0.157	0.008
TCRBV18_12	0.019	0.095	-0.038	0.137	0.035
TCRBV18_13	0.015	0.021	0.036	-0.010	0.075
TCRBV20_5	0.091	0.012	-0.065	-0.190	-0.227
TCRBV20_6	-0.052	-0.617	-0.670	-0.484	-0.213
TCRBV20_7	0.660	-0.862	0.571	0.475	-0.101
TCRBV20_8	1.607	0.279	-0.753	0.098	-1.345
TCRBV20_9	-1.161	-1.488	-0.001	-0.149	1.441
TCRBV20_10	0.864	0.735	0.117	0.790	1.829
TCRBV20_11	1.879	0.292	0.966	-0.001	1.358
TCRBV20_12	0.598	0.964	0.263	-0.659	0.373
TCRBV20_13	-0.797	1.301	-0.772	0.738	-1.378
TCRBV20_14	0.069	0.118	0.090	0.062	0.092

11	12	13	14	15
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TCRBV01_6	-0.078	0.174	0.009	-0.004	0.123
TCRBV01_7	-0.512	0.096	0.280	0.259	-0.011
TCRBV01_8	-1.333	0.323	0.740	-0.141	-1.727
TCRBV01_9	0.102	-0.588	-2.611	-0.115	-1.011
TCRBV01_10	-0.980	0.909	3.932	-0.993	-0.110
TCRBV01_11	0.693	0.718	-0.735	1.775	1.186
TCRBV01_12	1.174	0.599	0.497	0.846	0.433
TCRBV01_13	0.033	0.051	0.068	0.129	0.190
TCRBV01_14	-0.021	0.027	0.006	-0.006	0.009
TCRBV02_6	0.154	-0.275	-0.102	0.043	-0.365
TCRBV02_7	0.127	-0.905	0.185	0.111	0.538
TCRBV02_8	-1.231	-0.227	-0.822	0.347	0.338
TCRBV02_9	-1.144	0.417	-0.684	0.218	-0.451
TCRBV02_10	-0.414	-0.026	-0.231	0.930	0.281
TCRBV02_11	0.541	-1.179	0.125	0.634	0.701
TCRBV02_12	0.220	-0.146	-0.256	0.435	0.421
TCRBV02_13	-0.051	0.004	0.124	-0.055	-0.160
TCRBV03_4	0.047	0.061	0.043	-0.069	-0.034
TCRBV03_5	0.094	0.128	0.070	-0.063	-0.009
TCRBV03_6	-0.130	0.799	0.618	0.029	-0.061
TCRBV03_7	0.615	0.934	0.470	-0.218	0.970
TCRBV03_8	-0.486	2.181	0.323	-1.628	1.389
TCRBV03_9	-0.872	2.185	0.844	0.028	-0.153
TCRBV03_10	0.055	-1.247	-0.165	-1.776	-0.932
TCRBV03_11	1.977	-1.766	-0.699	2.395	-1.069
TCRBV03_12	0.074	-0.246	-0.413	1.289	-0.247
TCRBV03_13	-2.295	-0.721	1.094	1.764	-0.772
TCRBV04_6	0.020	0.001	0.001	0.002	0.012
TCRBV04_7	0.136	-0.017	-0.107	0.240	0.248
TCRBV04_8	-0.292	-0.174	-0.504	0.658	0.212
TCRBV04_9	-1.217	-0.900	-1.231	0.313	1.284
TCRBV04_10	-0.374	-0.005	0.463	1.101	-0.221
TCRBV04_11	1.439	0.706	0.508	1.235	-0.646
TCRBV04_12	0.914	0.618	0.450	0.448	-0.682
TCRBV04_13	-0.411	0.451	1.487	-3.362	1.290
TCRBV04_14	-0.468	-0.813	-0.881	-0.561	-1.477
TCRBV04_15	0.252	0.134	-0.187	-0.076	-0.019
TCRBV051_5	0.037	0.085	-0.165	0.011	-0.021
TCRBV051_6	0.984	0.372	-0.124	0.178	-0.348
TCRBV051_7	0.266	-1.065	-0.286	0.797	0.201

FIG. 100B

TCRBV051_8	1.067	-0.727	1.573	0.059	1.657
TCRBV051_9	0.749	-1.256	1.719	1.549	0.140
TCRBV051_10	1.252	-2.882	-0.338	0.221	-0.562
TCRBV051_11	1.331	0.911	-0.892	0.305	1.625
TCRBV051_12	-0.100	-1.198	-0.412	-0.321	-0.780
TCRBV051_13	-0.026	0.003	-0.199	-0.045	-0.040
TCRBV052_6	-0.018	0.036	-0.400	0.167	-0.219
TCRBV052_7	0.832	-0.605	-0.637	0.979	-0.694
TCRBV052_8	2.655	0.253	0.421	0.442	-1.192
TCRBV052_9	-1.275	-1.512	-2.308	2.217	1.751
TCRBV052_10	2.679	-1.899	1.344	0.242	-0.080
TCRBV052_11	0.694	-1.580	1.672	-0.806	1.779
TCRBV052_12	0.052	-0.423	0.878	-0.484	0.659
TCRBV052_13	-0.059	-0.027	-0.092	-0.004	-0.132
TCRBV06_5	0.015	-0.002	-0.078	0.045	0.027
TCRBV06_6	0.873	0.757	-0.508	0.284	0.106
TCRBV06_7	0.419	0.450	-0.304	-0.381	0.385
TCRBV06_8	0.174	-0.321	-0.052	0.291	0.033
TCRBV06_9	-0.676	2.490	-0.582	0.293	-1.469
TCRBV06_10	-0.778	0.460	0.997	0.924	-0.431
TCRBV06_11	-0.564	-1.128	1.080	-0.398	0.380
TCRBV06_12	-0.224	-0.449	1.517	0.698	0.343
TCRBV06_13	-0.160	0.051	0.115	-0.005	-0.292
TCRBV07_5	0.000	-0.002	0.007	0.013	-0.004
TCRBV07_6	-0.073	0.647	-0.249	1.430	-0.438
TCRBV07_7	0.061	2.148	-1.865	2.078	-2.463
TCRBV07_8	0.610	0.469	0.846	0.991	0.191
TCRBV07_9	3.442	-1.141	2.762	1.322	1.160
TCRBV07_10	-2.361	-1.803	0.384	-2.036	0.444
TCRBV07_11	-1.323	1.075	-0.452	-1.209	-0.014
TCRBV07_12	-1.169	0.638	0.747	-0.781	0.214
TCRBV07_13	-0.109	0.278	0.005	-0.058	-0.009
TCRBV081_5	0.197	0.148	-0.058	0.048	-0.062
TCRBV081_6	0.170	-0.052	-0.968	0.605	-0.198
TCRBV081_7	-0.839	-0.620	-1.479	0.460	-0.679
TCRBV081_8	0.396	0.900	-0.862	0.605	-0.973
TCRBV081_9	2.751	-2.471	2.729	-1.778	-2.626
TCRBV081_10	-1.599	1.636	0.241	0.148	1.929
TCRBV081_11	-0.824	0.565	-0.030	0.057	1.747
TCRBV081_12	-0.252	-0.106	0.427	-0.145	0.861
TCRBV082_4	0.306	0.138	-0.257	-0.115	0.042
TCRBV082_5	0.898	0.162	-0.632	0.113	0.380
TCRBV082_6	0.468	0.356	-0.328	0.318	0.175
TCRBV082_7	1.392	0.760	-1.129	-0.025	0.290
TCRBV082_8	-0.942	0.537	0.677	0.358	-0.111
TCRBV082_9	-1.243	-1.178	0.933	-0.276	-0.903
TCRBV082_10	-0.635	-0.447	0.845	-0.179	0.033
TCRBV082_11	-0.244	-0.328	-0.109	-0.193	0.095
TCRBV083_4	-0.164	-0.052	0.069	0.119	-0.066
TCRBV083_5	-0.099	-0.045	0.280	-0.196	0.004
TCRBV083_6	0.242	-0.026	-0.030	0.469	-0.242
TCRBV083_7	-0.947	-2.132	-0.733	-0.681	-0.412
TCRBV083_8	-0.394	-0.908	-0.263	-0.506	0.589
TCRBV083_9	0.540	1.475	0.937	1.007	0.280
TCRBV083_10	0.306	0.961	0.788	0.869	-0.446
TCRBV083_11	0.672	1.016	-1.164	-0.405	0.471
TCRBV083_12	-0.156	-0.289	0.116	-0.677	-0.178
TCRBV09_5	0.266	0.179	-0.059	0.078	-0.128
TCRBV09_6	-0.111	0.146	0.128	0.116	-0.105
TCRBV09_7	-0.594	-0.490	0.412	0.140	-0.174
TCRBV09_8	2.326	1.296	-4.307	-0.116	-0.213
TCRBV09_9	-4.105	-2.611	1.735	2.524	-0.563
TCRBV09_10	1.694	-0.367	2.112	2.090	-0.820
TCRBV09_11	-1.337	-0.362	-0.255	1.706	1.682

FIG. 100C

TCRBV09_12	0.541	-0.364	0.534	-1.227	-0.188
TCRBV09_13	0.211	0.151	-0.133	-0.311	0.074
TCRBV09_14	0.125	0.130	-0.114	-0.045	0.051
TCRBV09_15	0.009	0.002	-0.025	-0.027	0.013
TCRBV10_6	-0.012	0.368	-0.653	0.868	0.090
TCRBV10_7	-0.912	0.002	-0.393	0.171	-0.084
TCRBV10_8	0.355	0.095	-0.061	0.674	-0.364
TCRBV10_9	-1.991	-2.010	-0.427	0.144	1.149
TCRBV10_10	1.567	0.473	0.279	-1.791	0.670
TCRBV10_11	0.695	1.273	0.407	-0.031	-1.730
TCRBV10_12	0.275	-0.231	0.827	-0.000	0.285
TCRBV10_13	0.023	0.029	0.021	-0.033	-0.016
TCRBV11_5	-0.193	-0.014	0.031	0.315	0.141
TCRBV11_6	0.376	-0.396	0.466	0.083	0.262
TCRBV11_7	-1.021	-0.708	-0.515	0.206	-0.530
TCRBV11_8	-0.618	-0.189	-0.437	0.867	-0.265
TCRBV11_9	-0.559	0.011	0.206	-2.024	1.101
TCRBV11_10	0.684	1.088	0.268	0.829	-0.592
TCRBV11_11	-0.032	0.970	1.096	0.727	0.166
TCRBV11_12	0.295	0.819	0.576	1.136	-0.948
TCRBV11_13	0.007	0.547	0.366	-0.183	-0.153
TCRBV11_14	0.102	0.132	0.094	-0.150	-0.074
TCRBV11_15	0.038	0.049	0.035	-0.056	-0.027
TCRBV12_4	-0.091	0.082	-0.005	-0.348	0.187
TCRBV12_5	-1.887	-0.275	-0.056	0.520	0.450
TCRBV12_6	-1.370	-1.728	-0.007	-1.965	1.374
TCRBV12_7	-0.900	-1.145	0.008	0.832	0.147
TCRBV12_8	-0.161	-0.736	0.491	0.882	-0.985
TCRBV12_9	1.034	1.046	-0.573	0.630	0.530
TCRBV12_10	2.665	2.278	0.950	-0.544	-1.339
TCRBV12_11	0.437	0.418	-0.469	-0.049	-0.546
TCRBV12_12	0.273	0.061	-0.338	0.042	0.183
TCRBV13_5	0.028	0.098	0.045	-0.072	-0.086
TCRBV13_6	-0.577	0.100	-0.288	-0.483	-2.301
TCRBV13_7	-0.692	1.404	0.701	0.790	-0.563
TCRBV13_8	-1.035	1.378	1.371	1.368	-0.324
TCRBV13_9	-1.463	0.973	-0.447	-2.218	0.425
TCRBV13_10	2.114	-2.950	-0.854	-0.823	1.730
TCRBV13_11	1.287	-0.497	-1.093	1.108	1.210
TCRBV13_12	0.316	-0.348	0.284	0.370	0.021
TCRBV13_13	0.021	-0.157	0.282	-0.039	-0.113
TCRBV14_5	-0.049	-0.091	-0.288	0.112	0.008
TCRBV14_6	0.008	-0.564	0.211	-0.628	0.052
TCRBV14_7	-0.276	-0.354	-0.163	1.050	0.214
TCRBV14_8	-0.362	0.764	1.069	1.242	-1.025
TCRBV14_9	0.786	-0.529	-1.315	-0.640	0.109
TCRBV14_10	-0.477	-0.907	0.267	-0.782	0.454
TCRBV14_11	0.316	1.092	0.004	0.011	0.132
TCRBV14_12	0.124	0.451	0.204	-0.275	0.110
TCRBV14_13	-0.070	0.138	0.010	-0.090	-0.053
TCRBV15_4	0.012	-0.078	0.138	0.067	0.001
TCRBV15_5	-1.850	0.707	0.205	2.402	1.265
TCRBV15_6	0.065	1.000	0.117	-0.358	-0.624
TCRBV15_7	1.385	-0.331	-0.309	0.726	-0.696
TCRBV15_8	1.706	-0.015	-1.181	-0.679	-0.295
TCRBV15_9	-1.423	-2.321	0.532	-2.150	-2.565
TCRBV15_10	-0.206	2.095	1.694	1.098	1.240
TCRBV15_11	-0.457	1.007	0.755	0.430	0.465
TCRBV15_12	-0.154	0.244	0.236	0.214	0.289
TCRBV16_5	-0.091	0.009	0.033	0.184	-0.132
TCRBV16_6	-0.820	0.114	-0.049	1.644	0.804
TCRBV16_7	1.402	0.547	2.353	-1.251	0.165
TCRBV16_8	-0.242	-1.401	0.563	0.608	-1.375

FIG. 100D

TCRBV16_9	-0.508	-1.945	-2.137	0.262	-1.293
TCRBV16_10	1.217	-1.664	2.018	1.802	1.830
TCRBV16_11	3.340	-0.994	-1.906	1.049	1.875
TCRBV16_12	0.410	1.889	2.087	0.325	-0.894
TCRBV16_13	-0.071	-0.004	0.100	-0.119	-0.026
TCRBV18_3	0.008	-0.001	0.009	-0.021	0.004
TCRBV18_4	0.464	-0.011	0.314	0.352	0.224
TCRBV18_5	0.602	-0.431	0.536	0.388	0.572
TCRBV18_6	1.182	-0.288	1.124	1.667	2.070
TCRBV18_7	-0.701	1.554	0.514	-0.669	-0.124
TCRBV18_8	0.382	-0.273	-0.817	-1.371	3.707
TCRBV18_9	0.826	0.369	-1.522	-0.119	0.722
TCRBV18_10	0.431	-0.395	-0.410	-0.265	1.129
TCRBV18_11	-1.118	1.089	-0.078	-0.216	0.141
TCRBV18_12	-0.017	0.102	0.061	-0.269	0.059
TCRBV18_13	0.017	0.022	-0.014	-0.002	0.015
TCRBV20_5	-0.139	-0.344	-0.040	-0.216	0.167
TCRBV20_6	-0.136	0.001	0.388	0.103	0.193
TCRBV20_7	0.527	0.900	-0.383	-0.072	-0.663
TCRBV20_8	-0.893	2.152	-0.642	-0.108	-0.774
TCRBV20_9	0.793	2.037	-0.021	-2.053	0.144
TCRBV20_10	1.088	0.647	1.517	0.033	1.514
TCRBV20_11	0.094	-2.801	0.007	0.559	-2.299
TCRBV20_12	0.625	-0.993	1.211	0.927	-0.801
TCRBV20_13	-2.891	0.774	0.037	2.526	1.599
TCRBV20_14	0.010	-0.063	0.112	0.054	0.001

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TCRBV01_6	0.124	-0.157	0.071	0.040	-0.061
TCRBV01_7	-0.062	-0.845	0.717	0.465	-0.518
TCRBV01_8	-1.057	-0.575	0.555	0.526	0.206
TCRBV01_9	0.722	-1.905	1.473	1.528	1.108
TCRBV01_10	1.325	2.409	-0.095	-0.398	-0.287
TCRBV01_11	-0.453	0.570	0.135	-0.873	-0.276
TCRBV01_12	-0.420	-0.005	-1.074	-1.012	0.120
TCRBV01_13	0.157	0.356	-0.377	-0.476	0.195
TCRBV01_14	0.023	0.007	-0.040	-0.029	0.054
TCRBV02_6	0.124	-0.487	0.092	0.060	-0.427
TCRBV02_7	0.137	-0.177	-0.015	-0.403	0.425
TCRBV02_8	0.898	-0.608	0.935	-0.899	0.276
TCRBV02_9	0.891	-0.608	0.180	-2.825	-0.066
TCRBV02_10	0.563	-0.344	1.209	-2.132	1.038
TCRBV02_11	0.535	-0.072	0.086	-0.848	0.656
TCRBV02_12	0.057	-0.164	-0.255	0.113	0.913
TCRBV02_13	-0.119	0.038	-0.124	-0.115	0.028
TCRBV03_4	-0.080	0.063	-0.055	0.183	-0.074
TCRBV03_5	0.017	0.072	-0.042	0.251	-0.093
TCRBV03_6	-0.049	-0.981	0.734	0.182	0.651
TCRBV03_7	-0.240	-1.014	0.022	0.530	0.368
TCRBV03_8	-1.294	-0.648	-0.327	-0.074	-0.214
TCRBV03_9	0.695	0.387	1.157	-0.263	-0.296
TCRBV03_10	1.129	0.715	-1.522	-2.032	-0.622
TCRBV03_11	-0.592	0.692	0.946	0.613	0.755
TCRBV03_12	-0.058	0.619	0.307	-1.371	-0.138
TCRBV03_13	0.829	-0.050	0.147	1.753	0.204
TCRBV04_6	-0.032	-0.039	0.043	0.035	-0.003
TCRBV04_7	0.086	-0.052	-0.209	-0.021	0.669
TCRBV04_8	0.498	0.595	-0.175	0.273	0.735
TCRBV04_9	1.633	0.667	-0.553	0.853	0.758
TCRBV04_10	1.406	1.839	-1.796	0.574	0.575
TCRBV04_11	-0.894	-2.797	0.324	-0.295	-1.388
TCRBV04_12	0.243	-1.215	0.951	-0.001	-1.222
TCRBV04_13	-1.891	0.962	0.844	-1.124	-1.209

FIG. 101A

TCRBV04_14	-1.180	0.062	0.229	-0.274	1.002
TCRBV04_15	0.133	-0.022	0.342	-0.019	0.082
TCRBV051_5	0.049	0.126	0.001	0.049	-0.038
TCRBV051_6	-0.172	0.329	-0.255	0.342	-0.356
TCRBV051_7	0.564	0.652	-0.237	0.532	-2.308
TCRBV051_8	-0.607	-1.852	-1.027	0.178	0.088
TCRBV051_9	0.505	2.708	-1.401	0.296	0.629
TCRBV051_10	1.410	0.309	-0.606	1.567	0.580
TCRBV051_11	0.191	-1.680	-1.705	-0.481	0.606
TCRBV051_12	-0.260	-0.387	0.506	0.405	1.067
TCRBV051_13	0.072	0.055	0.127	0.034	0.072
TCRBV052_6	-0.021	-0.066	0.048	0.285	-0.426
TCRBV052_7	0.516	0.563	0.432	0.349	-1.158
TCRBV052_8	1.275	0.287	-3.475	1.409	1.577
TCRBV052_9	0.447	2.745	-0.828	-0.674	-1.669
TCRBV052_10	0.331	0.319	0.222	0.947	0.459
TCRBV052_11	-0.075	-2.727	-0.831	0.463	0.986
TCRBV052_12	-0.760	-0.671	-0.183	0.057	0.650
TCRBV052_13	0.040	-0.190	0.018	0.086	-0.077
TCRBV06_5	0.001	0.014	-0.014	0.032	0.008
TCRBV06_6	0.318	-0.382	-0.296	0.091	0.336
TCRBV06_7	-0.106	-0.250	0.097	0.079	-0.238
TCRBV06_8	1.015	-0.993	0.506	2.042	0.232
TCRBV06_9	0.155	0.610	-1.311	-0.041	0.240
TCRBV06_10	0.775	0.108	-0.016	-0.287	-0.528
TCRBV06_11	-1.610	0.622	2.046	-0.848	-0.011
TCRBV06_12	-0.285	0.525	0.107	-0.984	0.711
TCRBV06_13	0.095	-0.399	0.248	-0.314	-0.209
TCRBV07_5	0.001	-0.006	0.033	0.003	-0.030
TCRBV07_6	-0.199	0.250	-0.337	0.099	-0.432
TCRBV07_7	-0.655	-0.015	-1.094	-0.517	-1.191
TCRBV07_8	-0.707	0.607	0.002	-0.295	-0.780
TCRBV07_9	-2.083	0.792	1.591	0.743	0.641
TCRBV07_10	2.228	-0.425	0.112	0.196	-0.042
TCRBV07_11	0.535	-1.187	0.726	-0.364	1.592
TCRBV07_12	1.107	-0.151	0.153	-0.067	0.806
TCRBV07_13	0.129	-0.010	0.181	-0.028	-0.023
TCRBV081_5	0.013	0.091	-0.109	0.007	0.044
TCRBV081_6	-0.541	0.327	0.288	0.012	-0.439
TCRBV081_7	-0.518	0.827	-0.029	0.556	-0.679
TCRBV081_8	-1.803	0.175	-0.575	0.082	-0.739
TCRBV081_9	0.123	0.510	0.698	-1.334	0.899
TCRBV081_10	2.174	-2.065	-0.454	-0.221	0.812
TCRBV081_11	0.352	-0.104	0.127	0.647	-0.016
TCRBV081_12	0.200	0.240	0.053	0.251	0.119
TCRBV082_4	0.049	0.139	0.365	0.270	0.226
TCRBV082_5	0.463	0.344	0.562	0.192	0.019
TCRBV082_6	0.073	0.598	0.327	-0.317	0.399
TCRBV082_7	0.692	0.806	0.925	-1.173	0.811
TCRBV082_8	0.196	-0.960	-0.411	0.222	0.033
TCRBV082_9	-0.748	-0.707	-0.838	0.240	-0.546
TCRBV082_10	-0.574	-0.492	-0.743	0.435	-0.707
TCRBV082_11	-0.152	0.272	-0.188	0.132	-0.235
TCRBV083_4	0.049	-0.010	0.000	0.113	0.011
TCRBV083_5	0.183	-0.010	-0.152	-0.114	0.093
TCRBV083_6	-0.087	-0.244	0.511	-0.237	-0.027
TCRBV083_7	1.562	-0.251	0.484	0.466	0.080
TCRBV083_8	1.240	0.498	0.490	0.384	-1.463
TCRBV083_9	-1.147	-0.422	-0.174	0.433	1.133
TCRBV083_10	-0.259	0.133	0.203	0.659	0.279
TCRBV083_11	-1.268	0.143	-0.426	-1.292	-0.063
TCRBV083_12	-0.273	0.162	-0.935	-0.413	-0.044
TCRBV09_5	-0.018	-0.023	-0.181	-0.007	-0.004
TCRBV09_6	-0.059	-0.000	0.298	-0.222	-0.285

FIG.101B

TCRBV09_7	-0.299	0.014	0.683	-0.647	-0.585
TCRBV09_8	0.845	0.325	1.078	-1.432	1.841
TCRBV09_9	0.057	-1.447	1.129	-0.144	-1.919
TCRBV09_10	0.091	-2.132	-0.403	-2.030	-0.489
TCRBV09_11	0.168	0.086	2.772	0.247	0.091
TCRBV09_12	0.049	-0.331	1.005	-0.468	0.093
TCRBV09_13	0.331	0.113	0.254	-0.124	0.043
TCRBV09_14	0.311	0.178	0.149	0.026	0.069
TCRBV09_15	0.042	0.067	0.015	-0.008	0.029
TCRBV10_6	-0.048	0.040	0.139	-0.675	-0.522
TCRBV10_7	0.311	-0.534	-1.023	-1.924	-0.602
TCRBV10_8	1.288	-0.821	-0.583	-1.239	0.429
TCRBV10_9	0.178	-0.709	0.306	1.088	0.276
TCRBV10_10	-0.732	0.220	0.837	0.390	1.168
TCRBV10_11	-0.260	1.184	0.179	1.810	-0.676
TCRBV10_12	-0.699	0.588	0.171	0.461	-0.036
TCRBV10_13	-0.039	0.030	-0.026	0.088	-0.036
TCRBV11_5	-0.187	0.121	-0.022	-0.054	0.064
TCRBV11_6	-0.403	-0.962	0.567	0.149	0.162
TCRBV11_7	-0.099	-0.881	0.560	-0.106	0.368
TCRBV11_8	-0.061	-0.851	0.280	-0.539	-0.037
TCRBV11_9	1.009	0.080	-0.135	0.004	-0.111
TCRBV11_10	0.417	0.408	-0.147	-0.359	0.545
TCRBV11_11	0.105	0.837	0.107	-0.425	0.336
TCRBV11_12	0.065	0.524	0.250	0.166	-0.212
TCRBV11_13	-0.249	0.392	0.070	0.387	-0.355
TCRBV11_14	-0.174	0.137	-0.119	0.398	-0.161
TCRBV11_15	-0.065	0.051	-0.044	0.148	-0.060
TCRBV12_4	-0.244	0.064	-0.262	-0.166	-0.207
TCRBV12_5	-1.143	0.239	-0.599	-0.243	-0.526
TCRBV12_6	0.699	0.772	-0.679	0.103	-0.365
TCRBV12_7	-1.397	0.324	-1.048	0.097	1.693
TCRBV12_8	1.237	-0.944	-0.089	-0.817	0.050
TCRBV12_9	-0.144	0.008	1.166	-0.049	-1.230
TCRBV12_10	0.229	-0.337	0.371	-0.210	0.230
TCRBV12_11	0.655	0.039	0.818	0.658	0.117
TCRBV12_12	0.109	-0.166	0.321	0.629	0.238
TCRBV13_5	-0.120	0.101	-0.151	0.302	-0.156
TCRBV13_6	0.219	-0.180	0.339	1.069	-0.024
TCRBV13_7	0.336	-0.753	0.308	-0.422	1.965
TCRBV13_8	-0.253	-0.434	0.583	0.931	0.916
TCRBV13_9	-0.136	0.253	-0.955	0.323	0.098
TCRBV13_10	0.615	0.796	0.191	0.492	-1.495
TCRBV13_11	-0.627	0.030	-0.067	-1.998	-1.172
TCRBV13_12	0.155	0.326	-0.308	-0.711	-0.234
TCRBV13_13	-0.189	-0.140	0.061	0.013	0.101
TCRBV14_5	-0.199	-0.049	0.061	-0.224	-0.008
TCRBV14_6	0.772	-0.000	-0.173	-0.210	-0.758
TCRBV14_7	-0.673	-0.330	1.015	0.553	0.062
TCRBV14_8	0.312	-0.529	-0.133	-0.306	-0.777
TCRBV14_9	2.124	0.026	-0.375	-0.035	1.647
TCRBV14_10	-1.006	0.793	-0.506	-0.449	-0.709
TCRBV14_11	-0.945	0.163	0.354	0.464	0.697
TCRBV14_12	-0.307	-0.108	-0.291	0.149	-0.104
TCRBV14_13	-0.079	0.033	0.048	0.059	-0.050
TCRBV15_4	-0.069	0.047	-0.002	-0.041	0.038
TCRBV15_5	-1.626	0.821	-0.612	0.508	1.755
TCRBV15_6	-0.294	-0.803	0.108	0.105	-0.695
TCRBV15_7	-0.310	-1.202	0.567	0.897	-1.000
TCRBV15_8	0.473	-0.798	-0.195	-0.387	-2.128
TCRBV15_9	-1.754	0.153	0.793	-1.055	2.012
TCRBV15_10	2.513	0.699	0.264	-0.576	0.071
TCRBV15_11	1.052	0.811	0.078	-0.046	0.332

FIG.101C

	21	22	23	24	25
TCRBV15_12	0.373	0.129	0.365	0.366	0.157
TCRBV16_5	0.146	-0.002	0.260	0.062	-0.063
TCRBV16_6	-0.200	-0.088	-0.380	0.761	0.949
TCRBV16_7	-0.042	0.935	0.401	0.641	-0.147
TCRBV16_8	0.165	1.818	-0.501	-0.790	0.478
TCRBV16_9	-2.297	-1.579	-0.346	0.342	0.375
TCRBV16_10	1.631	-1.711	-0.706	0.161	-0.469
TCRBV16_11	1.966	0.598	0.138	-0.291	0.474
TCRBV16_12	0.732	0.347	-2.025	1.928	-0.653
TCRBV16_13	0.010	-0.203	-0.071	-0.121	-0.060
TCRBV18_3	0.003	0.009	0.025	0.002	0.021
TCRBV18_4	-0.382	0.172	1.117	-0.505	-0.140
TCRBV18_5	-0.088	0.569	2.138	-0.633	-0.143
TCRBV18_6	0.177	0.767	3.683	0.621	0.572
TCRBV18_7	0.141	2.436	0.365	-1.603	1.022
TCRBV18_8	-2.443	-0.368	-1.166	0.594	0.801
TCRBV18_9	-2.942	0.730	-0.489	1.739	-0.345
TCRBV18_10	-1.010	1.406	-1.356	1.166	-0.982
TCRBV18_11	-0.379	1.000	-0.400	0.442	-0.154
TCRBV18_12	-0.210	0.135	-0.170	0.079	-0.144
TCRBV18_13	0.017	0.073	0.006	0.008	0.032
TCRBV20_5	0.174	0.057	0.143	0.002	-0.209
TCRBV20_6	0.316	-0.883	0.112	0.476	-0.215
TCRBV20_7	1.152	-0.721	-0.117	1.019	-0.307
TCRBV20_8	0.936	0.095	1.419	2.026	-0.289
TCRBV20_9	0.848	1.014	2.647	0.289	-0.908
TCRBV20_10	-0.694	-2.291	-1.970	-1.817	-0.435
TCRBV20_11	-0.868	0.564	-0.547	-0.839	1.198
TCRBV20_12	0.171	0.778	-0.076	-0.695	0.193
TCRBV20_13	-1.621	1.203	-0.243	-0.657	1.482
TCRBV20_14	-0.056	0.038	-0.001	-0.033	0.031

	21	22	23	24	25
TCRBV01_6	0.176	0.112	0.092	0.019	0.220
TCRBV01_7	-0.025	0.204	0.115	0.784	-0.249
TCRBV01_8	-0.548	0.610	-0.567	0.525	0.793
TCRBV01_9	0.806	-0.919	-1.334	0.404	0.220
TCRBV01_10	1.758	1.350	-0.293	-1.577	-1.049
TCRBV01_11	0.213	-0.948	0.690	0.516	0.032
TCRBV01_12	-0.628	-0.167	1.157	0.782	0.126
TCRBV01_13	-0.014	-0.154	0.417	-0.050	0.203
TCRBV01_14	0.007	-0.030	0.022	-0.007	-0.025
TCRBV02_6	-0.154	-0.144	-0.062	-0.182	-0.046
TCRBV02_7	-0.300	-0.612	0.634	-0.200	0.247
TCRBV02_8	-0.753	-0.138	0.397	-0.490	0.138
TCRBV02_9	-0.882	-1.559	1.175	-0.541	-0.216
TCRBV02_10	-0.241	-0.310	0.858	-1.293	-0.075
TCRBV02_11	-0.595	0.219	0.346	-0.399	-0.503
TCRBV02_12	-0.223	0.216	0.268	-0.271	-0.172
TCRBV02_13	-0.083	-0.054	-0.072	-0.051	0.146
TCRBV03_4	0.084	0.059	-0.092	0.089	0.012
TCRBV03_5	0.260	0.057	-0.045	0.149	0.083
TCRBV03_6	0.805	0.524	0.640	0.081	0.446
TCRBV03_7	0.367	0.132	1.060	-0.101	-0.038
TCRBV03_8	0.560	0.177	0.901	-0.332	0.677
TCRBV03_9	1.092	-0.183	-0.343	0.379	-0.169
TCRBV03_10	-2.127	-0.655	-1.703	0.653	0.548
TCRBV03_11	0.172	0.102	-0.182	0.237	-1.295
TCRBV03_12	0.681	0.039	-0.892	-0.369	-0.379
TCRBV03_13	-0.149	-0.193	0.955	0.609	0.385
TCRBV04_6	-0.011	0.031	0.032	-0.044	-0.079
TCRBV04_7	0.125	0.106	0.112	0.430	-0.034
TCRBV04_8	0.159	0.143	0.492	0.417	0.131

FIG.101D

TCRBV04_9	-0.380	-0.497	0.305	0.967	0.401
TCRBV04_10	0.067	0.229	-0.235	-1.262	0.703
TCRBV04_11	0.696	0.081	-0.381	-1.045	-0.781
TCRBV04_12	0.930	-0.023	0.262	0.160	-0.422
TCRBV04_13	-1.525	-0.411	-0.484	0.267	-0.492
TCRBV04_14	0.085	0.119	-0.064	-0.042	0.604
TCRBV04_15	-0.145	0.222	-0.039	0.153	-0.031
TCRBV051_5	-0.187	0.084	0.140	-0.156	-0.047
TCRBV051_6	-0.784	0.005	1.127	-0.349	-1.081
TCRBV051_7	-0.145	0.663	0.917	-0.724	-1.560
TCRBV051_8	1.494	0.566	-0.074	1.290	0.101
TCRBV051_9	-2.002	-1.365	0.071	-0.026	-0.021
TCRBV051_10	0.689	0.479	-0.173	-1.119	0.751
TCRBV051_11	0.589	0.298	-2.312	-0.076	0.224
TCRBV051_12	0.311	0.128	-0.474	0.243	0.596
TCRBV051_13	-0.058	0.172	-0.043	0.226	0.025
TCRBV052_6	-0.193	0.005	0.047	-0.306	-0.083
TCRBV052_7	0.474	0.620	0.038	0.063	0.734
TCRBV052_8	-0.841	1.022	0.192	1.215	-1.125
TCRBV052_9	0.841	0.225	-0.634	0.213	0.509
TCRBV052_10	0.915	-0.694	0.182	-0.944	-0.388
TCRBV052_11	-0.563	-0.004	-0.516	-0.179	-0.233
TCRBV052_12	-0.552	-0.167	-0.179	-0.596	-0.379
TCRBV052_13	-0.175	0.021	0.050	-0.157	-0.044
TCRBV06_5	0.006	0.012	-0.049	-0.038	0.124
TCRBV06_6	0.384	-0.089	0.336	0.547	-0.537
TCRBV06_7	0.510	0.824	0.632	0.069	-0.184
TCRBV06_8	0.278	0.455	0.106	0.178	0.432
TCRBV06_9	1.472	-0.367	-0.245	-0.017	-0.570
TCRBV06_10	-0.804	-0.066	0.105	0.279	0.045
TCRBV06_11	-0.178	-0.623	0.586	0.092	1.272
TCRBV06_12	0.080	-0.207	-0.967	0.384	-0.366
TCRBV06_13	-0.004	0.120	-0.206	-0.099	0.054
TCRBV07_5	0.005	-0.011	0.025	0.001	-0.061
TCRBV07_6	0.273	-0.356	0.593	-0.086	-0.048
TCRBV07_7	-0.452	-1.366	0.766	0.175	-0.434
TCRBV07_8	-0.701	0.737	-0.779	0.164	-0.084
TCRBV07_9	0.020	-0.299	0.263	-0.804	1.635
TCRBV07_10	0.525	0.727	-0.751	1.821	-0.753
TCRBV07_11	0.931	0.422	0.884	0.200	0.171
TCRBV07_12	0.869	0.257	-0.832	-0.173	-0.303
TCRBV07_13	0.275	-0.052	0.129	0.098	0.148
TCRBV081_5	-0.186	0.018	0.214	-0.042	-0.124
TCRBV081_6	-0.383	0.415	-0.237	-0.181	0.147
TCRBV081_7	-0.135	0.263	-0.377	0.501	-0.332
TCRBV081_8	-0.470	0.091	0.358	0.083	-0.587
TCRBV081_9	1.522	-2.568	-1.689	1.176	0.150
TCRBV081_10	0.102	1.256	0.980	-0.910	0.959
TCRBV081_11	-0.321	0.553	0.529	-0.535	-0.090
TCRBV081_12	-0.129	-0.027	0.222	-0.092	-0.122
TCRBV082_4	-0.605	0.479	0.143	-0.066	0.096
TCRBV082_5	-0.214	0.771	0.245	0.443	0.490
TCRBV082_6	-0.308	1.061	0.104	0.159	0.290
TCRBV082_7	0.105	1.090	0.137	0.544	0.534
TCRBV082_8	-0.909	-2.105	-0.899	-0.301	-0.941
TCRBV082_9	0.967	-0.858	-0.159	-0.188	-0.426
TCRBV082_10	0.650	-0.672	-0.046	-0.573	-0.063
TCRBV082_11	0.313	0.234	0.474	-0.016	0.019
TCRBV083_4	-0.010	-0.006	0.079	0.049	0.038
TCRBV083_5	-0.037	-0.000	-0.069	0.041	0.079
TCRBV083_6	-0.326	-0.030	-0.069	0.140	-0.048
TCRBV083_7	-0.331	0.408	-0.024	0.293	-0.242
TCRBV083_8	-0.608	0.310	-0.479	0.183	-0.342
TCRBV083_9	-0.990	-0.398	0.460	-0.094	0.578

FIG. 102A

TCRBV083_10	0.333	0.091	0.214	-0.766	0.370
TCRBV083_11	1.560	-0.275	-0.432	0.101	-0.658
TCRBV083_12	0.410	-0.100	0.321	0.054	0.226
TCRBV09_5	-0.154	-0.028	0.180	0.083	-0.236
TCRBV09_6	-0.220	0.273	0.448	-0.401	0.203
TCRBV09_7	0.191	0.844	0.598	-0.603	-0.383
TCRBV09_8	-1.128	-0.203	-0.908	-2.343	0.176
TCRBV09_9	-1.097	-0.258	0.663	-0.596	1.788
TCRBV09_10	-0.528	0.356	0.622	-0.181	-0.575
TCRBV09_11	0.462	-1.803	-1.502	-0.530	0.616
TCRBV09_12	0.124	0.435	1.089	1.636	0.320
TCRBV09_13	0.131	0.467	0.605	0.913	-0.066
TCRBV09_14	0.140	0.199	0.164	0.490	0.108
TCRBV09_15	0.030	-0.003	0.032	0.081	-0.037
TCRBV10_6	0.722	0.362	-0.485	-0.361	-0.139
TCRBV10_7	0.842	0.382	-0.713	0.063	0.823
TCRBV10_8	0.316	-0.457	-0.381	-0.072	1.074
TCRBV10_9	0.045	-0.956	1.048	0.279	-1.374
TCRBV10_10	-0.434	-0.530	0.421	-0.130	-0.567
TCRBV10_11	-1.029	0.651	0.111	0.352	0.481
TCRBV10_12	-0.502	0.520	0.044	-0.173	-0.303
TCRBV10_13	0.040	0.028	-0.044	0.043	0.006
TCRBV11_5	-0.064	0.062	-0.260	0.134	-0.098
TCRBV11_6	-0.972	0.017	-0.360	0.328	0.057
TCRBV11_7	-0.587	0.263	0.146	0.243	0.084
TCRBV11_8	0.172	-0.023	-0.417	-0.758	-0.457
TCRBV11_9	-1.042	0.612	-0.205	-1.241	-1.087
TCRBV11_10	1.012	-0.917	0.936	0.819	-0.365
TCRBV11_11	1.613	0.243	0.545	0.251	0.750
TCRBV11_12	0.682	-0.543	0.273	0.916	0.850
TCRBV11_13	0.680	0.169	-0.085	0.438	0.498
TCRBV11_14	0.183	0.129	-0.200	0.194	0.027
TCRBV11_15	0.068	0.048	-0.074	0.072	0.010
TCRBV12_4	0.022	0.053	0.180	-0.065	-0.101
TCRBV12_5	1.110	-0.584	1.057	-0.068	-0.140
TCRBV12_6	-0.075	-0.769	0.467	0.097	-0.644
TCRBV12_7	-0.259	-1.402	0.689	-0.125	-1.174
TCRBV12_8	0.087	-0.402	0.187	-0.477	-0.052
TCRBV12_9	0.119	0.966	-0.925	1.005	0.253
TCRBV12_10	-2.043	1.000	-0.114	-0.685	0.668
TCRBV12_11	0.547	0.877	-1.581	0.308	0.942
TCRBV12_12	0.492	0.262	0.041	0.011	0.249
TCRBV13_5	0.121	0.015	-0.081	-0.017	0.009
TCRBV13_6	-1.169	0.258	0.295	0.299	0.480
TCRBV13_7	0.554	1.274	0.108	-0.247	-0.776
TCRBV13_8	-0.691	-0.703	-1.262	0.501	-0.489
TCRBV13_9	0.455	0.203	0.486	-0.737	0.389
TCRBV13_10	-0.196	-0.138	1.183	0.206	-0.237
TCRBV13_11	0.740	-0.070	-0.809	-0.165	0.427
TCRBV13_12	0.053	-0.160	0.256	0.096	0.192
TCRBV13_13	0.132	-0.680	-0.176	0.063	0.005
TCRBV14_5	0.308	0.021	-0.164	-0.004	-0.105
TCRBV14_6	0.564	0.312	-0.184	-0.277	0.014
TCRBV14_7	1.453	-0.325	0.497	-0.407	-0.207
TCRBV14_8	0.303	-0.679	-0.102	0.386	0.164
TCRBV14_9	-0.497	-0.954	-0.253	-0.098	-0.256
TCRBV14_10	-1.038	1.158	-0.080	-0.496	-0.094
TCRBV14_11	-1.230	0.427	0.330	0.618	0.386
TCRBV14_12	0.086	0.023	-0.003	0.211	0.073
TCRBV14_13	0.052	0.017	-0.041	0.066	0.025
TCRBV15_4	-0.022	0.052	0.015	-0.064	0.065
TCRBV15_5	-0.051	1.008	-1.136	0.049	-0.596
TCRBV15_6	-0.773	-0.068	0.204	0.636	-0.051
TCRBV15_7	-1.179	-0.041	-0.204	0.111	-0.181

FIG.102B

TCRBV15_8	0.828	0.729	-0.001	0.308	0.060
TCRBV15_9	1.208	0.830	1.383	-0.416	0.418
TCRBV15_10	0.580	-1.442	0.006	0.863	0.370
TCRBV15_11	0.879	-0.697	0.040	-0.025	0.349
TCRBV15_12	0.276	-0.312	-0.008	-0.065	-0.163
TCRBV16_5	-0.131	0.237	0.055	0.198	-0.079
TCRBV16_6	-0.499	0.666	-0.886	1.169	0.117
TCRBV16_7	-0.295	0.423	-0.001	-1.066	0.136
TCRBV16_8	-0.055	0.742	0.373	1.006	0.007
TCRBV16_9	0.553	-0.298	-0.533	0.181	-1.618
TCRBV16_10	-0.445	0.654	-2.438	-0.383	0.453
TCRBV16_11	1.179	-0.232	2.576	0.828	0.555
TCRBV16_12	1.234	-1.220	0.280	-1.105	-0.258
TCRBV16_13	0.110	0.115	0.051	-0.121	-0.053
TCRBV18_3	0.002	-0.007	0.012	0.016	-0.028
TCRBV18_4	-0.345	0.670	0.183	0.552	-0.536
TCRBV18_5	-0.407	0.864	0.120	0.568	-0.878
TCRBV18_6	-0.245	0.101	0.120	0.372	-2.058
TCRBV18_7	-1.112	-0.788	-0.503	0.752	0.228
TCRBV18_8	0.099	-1.862	0.205	-0.204	1.216
TCRBV18_9	0.612	-0.109	-0.765	0.095	0.892
TCRBV18_10	0.873	-0.445	-0.474	-0.505	0.795
TCRBV18_11	0.327	0.278	-0.587	0.179	-0.186
TCRBV18_12	0.117	0.057	-0.029	0.069	-0.053
TCRBV18_13	-0.060	0.025	0.067	-0.066	0.020
TCRBV20_5	-0.155	-0.149	-0.129	0.106	-0.029
TCRBV20_6	-0.480	0.164	-0.032	0.041	0.879
TCRBV20_7	0.101	-0.950	0.416	-0.827	-0.719
TCRBV20_8	-0.927	-1.448	0.547	0.407	1.055
TCRBV20_9	1.665	-0.690	-0.903	0.222	-1.122
TCRBV20_10	-0.152	0.082	0.733	1.987	0.025
TCRBV20_11	1.612	1.397	0.181	-0.414	0.622
TCRBV20_12	0.094	0.274	0.268	-0.489	0.438
TCRBV20_13	0.006	1.336	-0.794	0.415	-0.930
TCRBV20_14	-0.018	0.042	0.012	-0.052	0.052
	26	27	28	29	30
TCRBV01_6	-0.202	-0.173	-0.047	0.033	0.145
TCRBV01_7	-0.078	-0.189	0.155	0.172	-0.121
TCRBV01_8	0.777	0.327	0.297	0.175	0.398
TCRBV01_9	0.358	0.670	-0.505	-1.099	-1.170
TCRBV01_10	0.181	0.121	-0.041	0.488	0.052
TCRBV01_11	0.142	0.104	0.155	0.100	0.322
TCRBV01_12	0.180	-0.363	-0.174	0.290	0.364
TCRBV01_13	0.092	0.227	0.053	0.046	-0.015
TCRBV01_14	0.021	0.030	0.018	-0.007	0.004
TCRBV02_6	0.003	0.027	-0.094	0.174	0.716
TCRBV02_7	0.504	-0.302	-0.266	0.158	-0.047
TCRBV02_8	-0.324	-0.440	-0.028	-0.282	0.282
TCRBV02_9	-1.091	0.926	0.506	0.292	-0.324
TCRBV02_10	-0.999	0.221	0.548	-0.144	0.010
TCRBV02_11	-0.992	0.143	-0.135	-0.056	-0.027
TCRBV02_12	-0.464	-0.114	0.553	-0.206	0.057
TCRBV02_13	-0.078	-0.051	-0.008	-0.158	0.002
TCRBV03_4	0.089	-0.011	-0.028	0.006	-0.017
TCRBV03_5	-0.011	-0.028	0.016	0.096	-0.002
TCRBV03_6	0.558	-0.170	0.019	0.282	-0.220
TCRBV03_7	0.303	-0.272	0.535	-0.055	-0.301
TCRBV03_8	-0.346	-0.173	1.131	-0.456	-0.218
TCRBV03_9	-0.599	-0.208	-0.268	-0.890	0.365
TCRBV03_10	0.111	0.363	0.357	0.032	0.553
TCRBV03_11	0.539	0.257	-0.549	0.608	-0.206

FIG.102C

TCRBV03_12	0.462	-0.235	-0.704	0.351	0.054
TCRBV03_13	0.364	1.230	-0.599	0.225	-0.028
TCRBV04_6	-0.077	0.040	0.017	0.051	0.045
TCRBV04_7	0.065	-0.373	0.127	0.131	0.327
TCRBV04_8	0.501	-0.621	-0.021	0.118	-0.199
TCRBV04_9	0.646	-1.073	0.121	0.612	-0.214
TCRBV04_10	-0.266	0.339	-0.595	-1.448	-0.492
TCRBV04_11	-0.192	0.607	-0.088	0.668	-0.148
TCRBV04_12	-0.249	0.168	0.115	0.937	0.617
TCRBV04_13	-0.147	0.626	-0.038	-0.248	0.120
TCRBV04_14	-0.370	0.090	0.280	-0.437	-0.093
TCRBV04_15	0.088	0.198	0.080	-0.383	0.038
TCRBV051_5	0.095	-0.072	-0.117	0.091	0.322
TCRBV051_6	0.300	-0.742	-0.158	0.665	-0.061
TCRBV051_7	1.154	0.150	0.548	-0.309	0.131
TCRBV051_8	-1.168	-0.692	-0.229	-0.912	0.212
TCRBV051_9	0.976	1.173	1.475	0.917	-0.242
TCRBV051_10	-1.264	0.031	-0.311	0.388	-0.368
TCRBV051_11	0.470	0.370	0.480	-0.433	0.694
TCRBV051_12	-0.706	-0.664	-0.425	0.434	0.334
TCRBV051_13	-0.006	0.036	-0.079	-0.212	0.323
TCRBV052_6	-0.000	-0.001	0.129	-0.560	0.064
TCRBV052_7	-0.333	0.676	0.304	-0.790	0.025
TCRBV052_8	-0.546	-0.549	0.473	-0.043	0.581
TCRBV052_9	0.330	-0.116	-0.366	0.897	-0.606
TCRBV052_10	-0.455	-0.901	0.349	0.189	0.489
TCRBV052_11	0.885	0.292	0.343	0.291	0.434
TCRBV052_12	0.151	0.068	-0.110	0.506	0.378
TCRBV052_13	-0.182	0.121	0.060	0.139	-0.017
TCRBV06_5	0.019	-0.053	0.071	0.071	0.009
TCRBV06_6	-0.364	-0.263	0.103	0.178	-0.106
TCRBV06_7	0.036	-0.190	0.745	0.582	-0.091
TCRBV06_8	-0.246	-0.401	0.456	-0.169	-0.512
TCRBV06_9	-1.055	0.098	0.255	0.189	-0.909
TCRBV06_10	0.811	1.255	-0.533	-0.726	0.203
TCRBV06_11	1.757	0.041	-0.638	-0.549	0.587
TCRBV06_12	0.007	-0.043	-0.614	0.246	0.821
TCRBV06_13	0.505	0.310	0.064	0.379	-0.023
TCRBV07_5	-0.008	-0.009	0.025	-0.037	-0.034
TCRBV07_6	0.158	0.794	-0.811	-0.267	0.119
TCRBV07_7	0.186	0.154	-0.658	-0.270	0.274
TCRBV07_8	-0.102	-0.646	-0.247	0.820	-0.469
TCRBV07_9	0.988	0.655	0.107	-1.057	-0.005
TCRBV07_10	-0.005	-0.136	0.508	0.254	0.536
TCRBV07_11	0.947	0.498	0.487	0.199	-0.428
TCRBV07_12	-0.505	-0.544	0.455	0.428	-0.000
TCRBV07_13	-0.188	-0.013	0.043	0.130	-0.013
TCRBV081_5	0.015	-0.163	-0.033	0.165	0.068
TCRBV081_6	0.340	-0.221	0.134	-0.209	0.390
TCRBV081_7	0.196	0.983	0.882	-0.781	0.283
TCRBV081_8	0.018	0.290	1.469	-0.344	0.362
TCRBV081_9	-0.341	0.693	0.100	0.604	-0.275
TCRBV081_10	-0.120	-0.935	-0.876	-0.295	0.917
TCRBV081_11	-0.066	-0.504	-0.345	0.167	-0.487
TCRBV081_12	-0.043	-0.144	-1.332	0.692	-1.259
TCRBV082_4	-0.267	0.115	0.380	0.258	0.345
TCRBV082_5	-0.027	0.511	-0.006	0.191	0.217
TCRBV082_6	-0.029	0.512	0.684	0.553	0.447
TCRBV082_7	-0.075	0.719	-0.209	0.577	0.049
TCRBV082_8	-0.099	-0.784	-0.190	-0.494	-0.021
TCRBV082_9	0.376	-0.543	-0.367	-0.632	-0.330
TCRBV082_10	-0.155	-0.423	-0.153	-0.418	-0.374
TCRBV082_11	0.275	-0.108	-0.139	-0.034	-0.332
TCRBV083_4	0.026	0.095	-0.041	0.017	-0.000

FIG. 102D

TCRBV083_5	-0.095	-0.090	-0.301	0.208	-0.310
TCRBV083_6	-0.365	0.072	-0.393	0.206	-0.193
TCRBV083_7	-0.307	0.082	-0.850	0.039	-0.266
TCRBV083_8	-0.246	0.198	-0.447	0.165	0.648
TCRBV083_9	0.032	-0.558	0.305	-0.293	-0.202
TCRBV083_10	0.487	0.366	0.362	-0.291	-0.267
TCRBV083_11	0.254	-0.423	0.741	0.074	0.065
TCRBV083_12	0.212	0.258	0.623	-0.126	0.525
TCRBV09_5	-0.009	-0.187	-0.075	0.104	0.032
TCRBV09_6	-0.060	-0.095	0.170	-0.202	0.084
TCRBV09_7	-0.322	-0.221	0.730	0.444	-0.431
TCRBV09_8	-0.200	-0.387	-0.064	-0.400	-0.451
TCRBV09_9	-1.272	-0.683	1.048	0.775	-0.097
TCRBV09_10	-0.704	0.103	-1.093	0.460	0.947
TCRBV09_11	0.085	-1.288	0.082	0.418	0.021
TCRBV09_12	-0.859	0.702	-1.093	-0.856	0.552
TCRBV09_13	-0.235	0.495	-0.389	-0.297	-0.352
TCRBV09_14	-0.100	0.184	0.152	0.069	0.097
TCRBV09_15	-0.017	0.068	0.041	0.042	-0.074
TCRBV10_6	0.297	0.039	0.045	-0.334	0.420
TCRBV10_7	0.439	-0.491	0.188	0.207	0.390
TCRBV10_8	0.633	0.591	0.583	-0.091	0.481
TCRBV10_9	0.639	0.461	0.981	-0.555	-0.853
TCRBV10_10	0.389	-0.797	-0.232	-0.116	-0.167
TCRBV10_11	-1.769	0.224	-0.595	0.531	-0.325
TCRBV10_12	-0.671	-0.022	-0.956	0.355	0.062
TCRBV10_13	0.043	-0.005	-0.013	0.003	-0.008
TCRBV11_5	0.092	0.215	-0.106	0.099	0.087
TCRBV11_6	0.025	-0.117	0.066	0.195	0.215
TCRBV11_7	0.289	0.254	-0.198	0.658	-0.015
TCRBV11_8	0.671	-0.420	0.403	0.608	0.132
TCRBV11_9	0.102	0.910	0.055	-0.293	-0.308
TCRBV11_10	0.501	0.385	-0.148	-0.130	-0.076
TCRBV11_11	0.001	0.372	-0.022	-0.481	0.018
TCRBV11_12	-0.534	-0.716	-0.048	-0.342	0.086
TCRBV11_13	0.055	-0.098	-0.010	-0.133	-0.107
TCRBV11_14	0.194	-0.023	-0.061	0.013	-0.038
TCRBV11_15	0.072	-0.009	-0.023	0.005	-0.014
TCRBV12_4	0.063	0.093	-0.032	0.160	0.048
TCRBV12_5	0.547	0.406	-0.901	0.493	-0.088
TCRBV12_6	0.015	-0.262	-0.075	-0.603	0.862
TCRBV12_7	-0.338	-0.765	-0.332	-0.421	0.136
TCRBV12_8	-0.346	0.402	0.469	0.321	-0.268
TCRBV12_9	0.128	-0.130	0.618	0.256	-0.225
TCRBV12_10	-0.084	0.212	-0.067	0.144	-0.508
TCRBV12_11	0.065	-0.002	0.339	-0.119	-0.125
TCRBV12_12	-0.049	0.045	-0.018	-0.232	0.168
TCRBV13_5	0.134	-0.043	-0.026	-0.075	-0.077
TCRBV13_6	-0.455	0.187	-0.305	0.187	-0.607
TCRBV13_7	1.379	0.112	-0.400	0.364	0.455
TCRBV13_8	-0.206	-0.742	0.866	0.551	-0.291
TCRBV13_9	-0.552	-1.274	0.468	0.356	0.763
TCRBV13_10	-0.064	-0.313	0.061	-0.774	-0.327
TCRBV13_11	-0.172	-0.645	-0.488	-0.527	-0.411
TCRBV13_12	0.022	0.212	-0.287	-0.298	0.283
TCRBV13_13	-0.087	-0.042	0.111	0.217	0.213
TCRBV14_5	0.043	-0.197	-0.047	0.044	-0.007
TCRBV14_6	0.033	-0.131	0.080	0.067	-0.056
TCRBV14_7	0.549	0.205	0.166	-0.187	0.236
TCRBV14_8	-0.499	0.691	0.235	0.008	-0.218
TCRBV14_9	0.479	0.757	-0.523	0.098	0.099
TCRBV14_10	-1.073	-0.076	-0.466	-0.276	-0.006
TCRBV14_11	0.382	-1.236	0.478	0.254	-0.056
TCRBV14_12	0.029	-0.014	0.115	-0.001	0.042

FIG. 103A

TCRBV14_13	0.056	0.001	-0.038	-0.008	-0.034
TCRBV15_4	-0.012	-0.074	0.008	-0.185	-0.024
TCRBV15_5	-0.333	0.810	-0.200	0.363	0.228
TCRBV15_6	0.096	0.049	-0.169	0.347	0.092
TCRBV15_7	1.306	-0.907	-0.742	0.105	0.265
TCRBV15_8	0.958	0.577	-0.079	-0.265	-0.664
TCRBV15_9	0.368	0.137	-0.007	0.657	-0.303
TCRBV15_10	-0.563	0.401	0.636	-0.747	0.476
TCRBV15_11	-0.275	-0.223	0.463	-0.132	-0.037
TCRBV15_12	-0.074	-0.016	-0.002	0.057	-0.056
TCRBV16_5	0.002	0.162	0.110	-0.150	0.038
TCRBV16_6	0.245	1.253	-0.268	0.049	-0.097
TCRBV16_7	1.056	0.195	0.512	0.207	-0.292
TCRBV16_8	1.032	-1.770	-0.134	-0.369	0.366
TCRBV16_9	-0.786	0.057	0.661	-0.379	0.802
TCRBV16_10	0.052	0.426	0.296	0.136	-0.490
TCRBV16_11	-0.134	0.080	0.459	1.341	0.655
TCRBV16_12	-0.373	-0.169	-0.732	-0.136	0.291
TCRBV16_13	0.227	0.109	0.187	0.131	0.054
TCRBV18_3	-0.011	-0.018	-0.005	0.012	-0.006
TCRBV18_4	-0.385	0.155	0.296	-0.584	-0.075
TCRBV18_5	-1.028	-0.527	0.357	-0.442	0.315
TCRBV18_6	-1.260	0.842	0.617	-0.909	-0.125
TCRBV18_7	-0.193	-1.547	-0.017	-0.470	-0.537
TCRBV18_8	-1.171	1.573	-0.965	1.106	0.010
TCRBV18_9	-0.879	-0.272	0.121	0.609	1.186
TCRBV18_10	0.039	-0.131	0.680	0.363	-0.174
TCRBV18_11	0.204	-0.378	0.270	-0.017	-0.215
TCRBV18_12	0.103	0.052	0.174	0.010	0.103
TCRBV18_13	0.014	-0.029	0.011	0.067	0.033
TCRBV20_5	0.280	0.036	-0.046	0.038	0.125
TCRBV20_6	0.542	-0.193	-0.693	-0.806	0.759
TCRBV20_7	0.607	0.076	0.128	-0.035	0.560
TCRBV20_8	-0.045	0.321	0.621	0.470	0.751
TCRBV20_9	0.289	0.033	-0.723	1.306	0.168
TCRBV20_10	0.205	-0.131	0.222	0.118	-2.418
TCRBV20_11	-0.540	0.134	0.724	-0.342	-0.123
TCRBV20_12	0.086	-0.456	0.225	-0.390	0.227
TCRBV20_13	0.054	0.993	-0.555	-0.010	-0.050
TCRBV20_14	-0.009	-0.060	0.007	-0.150	-0.019
	31	32	33	34	35
TCRBV01_6	-0.018	0.070	0.011	0.093	0.015
TCRBV01_7	0.623	0.102	0.195	0.141	0.047
TCRBV01_8	0.678	-0.704	0.327	-0.704	0.059
TCRBV01_9	0.879	1.282	0.305	0.333	0.123
TCRBV01_10	-0.250	0.005	-0.065	-0.239	-0.013
TCRBV01_11	-1.133	-0.810	-0.609	0.385	-0.278
TCRBV01_12	-0.410	0.356	-0.278	-0.117	-0.078
TCRBV01_13	-0.154	-0.135	-0.249	-0.156	-0.062
TCRBV01_14	0.006	-0.005	0.005	0.009	-0.021
TCRBV02_6	0.177	0.356	-0.049	0.221	0.287
TCRBV02_7	-0.560	0.001	-0.021	-0.055	0.303
TCRBV02_8	0.353	-0.334	0.209	-0.125	0.170
TCRBV02_9	0.090	-0.538	-0.084	1.106	0.298
TCRBV02_10	0.124	0.199	0.518	0.361	-0.133
TCRBV02_11	0.075	0.057	0.255	0.155	-0.296
TCRBV02_12	-0.547	-0.180	0.474	-0.264	-0.089
TCRBV02_13	-0.026	-0.190	0.304	-0.027	0.105
TCRBV03_4	0.008	0.016	-0.042	-0.036	-0.017
TCRBV03_5	-0.042	0.028	-0.033	0.072	0.015
TCRBV03_6	0.674	-0.302	-0.291	-0.348	0.138

FIG 103B

TCRBV03_7	0.077	-0.182	0.433	0.105	-0.334
TCRBV03_8	0.153	-0.595	0.393	-0.247	0.172
TCRBV03_9	-0.075	0.146	0.024	-0.469	0.315
TCRBV03_10	-0.903	0.337	-0.269	0.435	-0.141
TCRBV03_11	0.134	0.223	0.046	0.759	-0.637
TCRBV03_12	-0.009	0.547	-0.302	0.033	0.410
TCRBV03_13	0.203	-0.056	-0.318	-0.559	-0.130
TCRBV04_6	-0.079	0.050	-0.030	-0.049	0.007
TCRBV04_7	-0.166	0.108	-0.211	-0.025	-0.197
TCRBV04_8	0.598	-0.612	-0.079	0.431	0.285
TCRBV04_9	0.604	0.005	-0.715	0.115	0.306
TCRBV04_10	-0.869	-0.510	0.181	0.371	0.542
TCRBV04_11	-0.614	0.128	0.423	-0.830	0.603
TCRBV04_12	0.461	0.316	1.297	0.276	0.287
TCRBV04_13	0.010	0.803	-0.832	-0.224	-0.893
TCRBV04_14	-0.101	-0.435	-0.146	-0.098	-0.736
TCRBV04_15	0.156	0.146	0.111	0.032	-0.204
TCRBV051_5	-0.354	-0.499	0.016	-0.014	-0.017
TCRBV051_6	0.230	0.114	-0.261	0.300	0.279
TCRBV051_7	-0.467	-0.417	0.229	-0.036	0.325
TCRBV051_8	0.200	-0.266	-0.052	0.210	0.148
TCRBV051_9	0.160	0.982	0.835	-0.258	0.613
TCRBV051_10	0.310	-0.280	-0.588	-0.172	0.265
TCRBV051_11	0.081	0.011	-0.039	0.675	-0.050
TCRBV051_12	-0.019	-0.744	-0.175	0.560	-0.864
TCRBV051_13	-0.153	-0.109	0.157	-0.028	0.013
TCRBV052_6	-0.062	-0.094	0.049	0.262	-0.220
TCRBV052_7	-0.403	0.096	0.157	0.340	-0.075
TCRBV052_8	0.253	-0.176	-0.081	0.102	0.196
TCRBV052_9	-0.459	-0.266	0.223	0.438	0.427
TCRBV052_10	0.864	-1.009	-0.094	0.035	-0.119
TCRBV052_11	-0.329	0.277	-0.042	0.137	0.406
TCRBV052_12	0.216	-0.078	-0.036	-0.036	0.116
TCRBV052_13	-0.092	0.043	-0.054	-0.041	-0.019
TCRBV06_5	0.114	-0.034	0.034	-0.001	-0.124
TCRBV06_6	-0.184	0.180	0.164	-0.162	-0.180
TCRBV06_7	-0.416	0.498	-0.096	-0.261	-0.044
TCRBV06_8	-0.696	0.805	-0.729	-0.191	-0.012
TCRBV06_9	-0.263	0.019	-0.086	-0.087	-0.739
TCRBV06_10	1.044	-0.719	0.273	0.282	-0.062
TCRBV06_11	0.154	-0.814	-0.162	0.123	0.634
TCRBV06_12	0.398	0.386	0.232	-0.107	0.023
TCRBV06_13	0.068	-0.158	0.011	0.150	0.296
TCRBV07_5	-0.014	0.008	0.026	0.010	-0.045
TCRBV07_6	0.266	-0.215	-0.050	-0.478	-0.042
TCRBV07_7	0.565	0.110	0.458	-0.355	-0.371
TCRBV07_8	0.355	0.039	-0.635	0.109	-0.063
TCRBV07_9	-0.133	0.051	-0.807	-0.165	-0.325
TCRBV07_10	-0.434	-0.074	0.342	-0.064	0.125
TCRBV07_11	-0.193	-0.166	0.054	0.216	0.109
TCRBV07_12	-0.105	0.356	0.230	0.322	0.368
TCRBV07_13	-0.085	0.053	0.023	0.150	0.035
TCRBV081_5	-0.043	-0.155	0.061	-0.013	0.023
TCRBV081_6	-0.521	-0.078	-0.159	0.379	0.099
TCRBV081_7	0.071	-0.461	-0.553	-0.047	0.469
TCRBV081_8	0.097	0.174	-0.233	0.237	-0.259
TCRBV081_9	-0.131	-0.053	0.365	-0.281	0.149
TCRBV081_10	0.496	0.811	0.419	0.083	-0.839
TCRBV081_11	0.105	-0.036	0.002	0.278	0.130
TCRBV081_12	-0.075	-0.202	0.097	-0.636	0.228
TCRBV082_4	-0.097	-0.014	0.054	-0.097	-0.018
TCRBV082_5	0.278	0.205	0.313	-0.058	0.042
TCRBV082_6	0.236	-0.162	0.086	-0.188	-0.378
TCRBV082_7	-0.109	0.677	-0.027	-0.006	0.737

FIG. 103C

TCRBV082_8	-0.328	-1.074	-0.302	-0.826	-0.273
TCRBV082_9	0.182	0.031	-0.251	0.364	0.188
TCRBV082_10	-0.042	-0.133	-0.021	0.497	-0.293
TCRBV082_11	-0.120	0.470	0.148	0.315	-0.005
TCRBV083_4	0.011	0.001	-0.022	-0.035	-0.012
TCRBV083_5	0.241	0.045	0.267	-0.033	0.232
TCRBV083_6	0.132	-0.060	-0.261	0.134	-0.110
TCRBV083_7	0.253	0.005	-0.075	-0.952	-0.102
TCRBV083_8	0.120	-0.907	-0.038	-0.766	-0.009
TCRBV083_9	-0.464	0.315	-0.667	0.101	-0.169
TCRBV083_10	-0.447	0.596	0.062	0.659	0.167
TCRBV083_11	-0.067	0.051	0.413	0.476	0.093
TCRBV083_12	0.220	-0.046	0.321	0.416	-0.089
TCRBV09_5	0.128	-0.013	0.123	-0.036	0.038
TCRBV09_6	0.167	0.254	0.074	-0.044	0.353
TCRBV09_7	0.397	-0.556	-0.991	0.735	0.063
TCRBV09_8	-0.781	-0.127	0.403	-0.989	0.418
TCRBV09_9	-0.324	0.277	-0.097	0.104	0.126
TCRBV09_10	-0.403	-0.411	0.159	-0.153	-0.023
TCRBV09_11	-0.187	-0.146	0.805	-0.018	-0.623
TCRBV09_12	0.036	0.309	0.061	0.566	0.809
TCRBV09_13	0.162	0.200	0.169	-0.007	0.519
TCRBV09_14	0.083	0.131	0.191	0.146	0.384
TCRBV09_15	0.085	0.039	-0.055	0.056	0.118
TCRBV10_6	-0.113	0.027	-0.019	0.123	0.386
TCRBV10_7	-0.171	0.507	-0.384	-0.329	-0.007
TCRBV10_8	0.490	0.194	-0.171	-0.715	-0.123
TCRBV10_9	-0.034	0.230	0.320	-0.004	0.281
TCRBV10_10	-0.116	-0.723	-0.345	0.160	-0.111
TCRBV10_11	-0.172	-0.027	0.380	0.802	-0.495
TCRBV10_12	0.112	-0.217	0.238	-0.020	0.077
TCRBV10_13	0.004	0.008	-0.020	-0.017	-0.008
TCRBV11_5	-0.079	-0.146	0.011	0.258	0.144
TCRBV11_6	0.003	0.344	-0.289	0.575	0.199
TCRBV11_7	-0.201	-0.186	-0.099	-0.030	-0.017
TCRBV11_8	0.635	-0.145	-0.442	-0.239	-0.470
TCRBV11_9	0.743	0.179	-0.476	-0.048	0.143
TCRBV11_10	-0.094	0.223	0.044	-0.495	-0.530
TCRBV11_11	-0.303	0.099	0.288	-0.166	0.087
TCRBV11_12	-0.373	-0.268	0.534	0.036	0.127
TCRBV11_13	-0.135	0.014	0.195	-0.038	0.157
TCRBV11_14	0.018	0.036	-0.091	-0.078	-0.036
TCRBV11_15	0.007	0.013	-0.034	-0.029	-0.013
TCRBV12_4	-0.099	-0.217	-0.014	0.035	-0.128
TCRBV12_5	0.146	0.283	0.133	-0.088	0.231
TCRBV12_6	-0.572	0.562	0.620	-0.135	-0.459
TCRBV12_7	-0.110	0.756	0.188	0.522	-0.425
TCRBV12_8	0.998	-0.035	-0.218	0.107	0.043
TCRBV12_9	-0.411	-0.734	-0.346	0.297	-0.174
TCRBV12_10	0.350	0.160	-0.358	-0.199	0.532
TCRBV12_11	-0.478	-0.797	-0.041	-0.376	0.322
TCRBV12_12	0.177	-0.022	0.035	-0.163	0.059
TCRBV12_13	0.017	0.160	-0.027	0.060	0.074
TCRBV13_5	-0.872	0.024	0.039	0.464	0.107
TCRBV13_6	-0.199	-0.169	0.253	0.467	0.249
TCRBV13_7	-0.088	-0.105	0.282	0.132	-0.070
TCRBV13_8	-0.083	-1.220	0.259	0.033	0.152
TCRBV13_9	0.578	0.035	0.060	-0.578	-0.353
TCRBV13_10	0.477	0.749	-0.481	-0.104	0.251
TCRBV13_11	0.133	0.295	-0.610	-0.119	-0.314
TCRBV13_12	0.037	0.231	0.226	-0.355	-0.098
TCRBV13_13	-0.013	0.073	0.025	0.045	0.085
TCRBV14_5	0.097	0.038	0.240	-0.049	-0.053
TCRBV14_6	-0.070	-0.196	-0.172	0.238	0.203
TCRBV14_7					

FIG. 103D

	36	37	38	39	40
TCRBV14_8	0.034	0.097	-0.329	0.191	-0.224
TCRBV14_9	-0.249	-0.531	-0.014	0.168	-0.416
TCRBV14_10	0.260	0.504	-0.177	-0.209	-0.169
TCRBV14_11	0.022	0.008	0.245	-0.484	0.642
TCRBV14_12	-0.087	-0.024	0.209	0.144	-0.046
TCRBV14_13	0.005	0.031	-0.027	-0.043	-0.023
TCRBV15_4	-0.028	-0.129	0.355	0.011	0.126
TCRBV15_5	0.215	0.049	-0.463	-0.431	-0.207
TCRBV15_6	0.127	0.098	0.479	-0.055	0.071
TCRBV15_7	-0.173	0.226	0.370	0.105	0.203
TCRBV15_8	0.674	-0.573	0.558	0.429	-0.784
TCRBV15_9	-0.963	0.331	-0.454	0.042	0.252
TCRBV15_10	0.137	0.252	-0.874	-0.452	-0.020
TCRBV15_11	0.204	0.038	-0.347	0.101	0.098
TCRBV15_12	0.029	-0.129	0.019	-0.005	0.053
TCRBV16_5	0.028	0.102	0.061	0.021	-0.190
TCRBV16_6	-0.263	-0.318	0.050	0.486	-0.358
TCRBV16_7	0.632	0.089	0.880	0.459	-0.717
TCRBV16_8	-0.921	-0.349	0.855	-0.423	-0.181
TCRBV16_9	0.530	-0.300	-0.991	-0.228	1.081
TCRBV16_10	0.002	-0.277	0.147	0.423	0.007
TCRBV16_11	0.253	0.024	-0.740	0.006	-0.182
TCRBV16_12	-0.177	0.070	-0.478	0.198	1.037
TCRBV16_13	0.124	-0.088	-0.019	0.040	0.008
TCRBV18_3	0.029	-0.024	-0.038	0.032	0.011
TCRBV18_4	0.086	0.210	0.155	0.049	-0.296
TCRBV18_5	-0.019	0.319	0.319	-0.147	0.718
TCRBV18_6	-0.666	-0.215	0.426	-0.088	0.177
TCRBV18_7	1.820	-0.588	0.247	0.764	0.904
TCRBV18_8	0.018	-0.401	0.714	0.179	0.365
TCRBV18_9	0.381	0.330	0.507	-0.398	0.234
TCRBV18_10	0.151	0.406	0.369	-0.072	0.259
TCRBV18_11	0.216	0.575	-0.400	-0.179	0.029
TCRBV18_12	-0.002	-0.025	-0.043	0.052	-0.086
TCRBV18_13	-0.087	-0.101	-0.013	0.007	-0.001
TCRBV20_5	-0.131	-0.110	0.019	0.173	0.201
TCRBV20_6	-0.637	0.239	-0.235	0.837	0.197
TCRBV20_7	-0.381	0.078	-0.016	0.078	0.143
TCRBV20_8	0.211	0.227	-0.198	-0.297	-0.068
TCRBV20_9	-0.155	0.173	-0.877	0.386	-0.219
TCRBV20_10	-0.412	-0.519	0.084	-0.685	0.109
TCRBV20_11	0.588	0.092	0.394	-0.291	-0.454
TCRBV20_12	0.857	0.133	0.160	-0.181	-0.046
TCRBV20_13	0.304	-0.047	0.025	-0.284	-0.174
TCRBV20_14	-0.023	-0.104	0.287	0.009	0.102
TCRBV01_6	-0.081	-0.005	-0.041	-0.011	0.038
TCRBV01_7	-0.012	-0.180	0.064	0.238	0.174
TCRBV01_8	-0.570	0.176	-0.114	0.201	0.386
TCRBV01_9	0.027	-0.269	-0.088	0.785	0.246
TCRBV01_10	-0.102	-0.319	0.148	-0.837	0.349
TCRBV01_11	0.662	0.414	-0.212	-0.263	-0.554
TCRBV01_12	0.612	0.048	0.305	-0.231	-0.341
TCRBV01_13	0.129	0.109	0.084	-0.090	-0.272
TCRBV01_14	0.017	-0.017	-0.003	0.008	0.012
TCRBV02_6	0.027	0.051	0.091	0.286	-0.029
TCRBV02_7	0.190	-0.274	0.161	0.209	-0.089
TCRBV02_8	0.071	-0.413	0.051	-0.401	-0.267
TCRBV02_9	-0.014	0.038	0.122	-0.125	0.164
TCRBV02_10	-0.053	-0.372	0.170	0.094	0.020
TCRBV02_11	0.123	-0.426	-0.531	0.345	0.367

FIG. 104A

TCRBV02_12	-0.112	0.175	0.088	0.240	-0.046
TCRBV02_13	-0.228	0.061	0.010	-0.029	0.052
TCRBV03_4	-0.000	0.030	-0.004	-0.016	-0.004
TCRBV03_5	-0.008	-0.040	-0.017	0.024	0.000
TCRBV03_6	0.256	0.463	-0.027	-0.203	-0.102
TCRBV03_7	0.174	0.134	-0.040	-0.507	-0.188
TCRBV03_8	0.045	0.050	-0.375	0.013	-0.497
TCRBV03_9	-0.361	-0.221	-0.084	0.496	-0.451
TCRBV03_10	0.320	0.304	0.332	-0.249	0.619
TCRBV03_11	-0.485	-0.367	0.306	0.237	0.083
TCRBV03_12	0.322	-0.395	0.179	0.134	0.452
TCRBV03_13	0.420	0.000	-0.126	-0.129	0.126
TCRBV04_6	-0.010	-0.023	0.009	-0.045	0.027
TCRBV04_7	0.166	-0.143	0.275	-0.197	0.027
TCRBV04_8	-0.405	-0.386	0.099	0.152	-0.010
TCRBV04_9	-0.884	0.005	-0.228	0.168	0.463
TCRBV04_10	0.321	-0.472	-0.614	-0.196	0.297
TCRBV04_11	0.246	0.584	-0.269	-0.161	0.213
TCRBV04_12	0.615	-0.365	0.698	0.239	0.074
TCRBV04_13	0.118	-0.093	-0.115	0.143	-0.668
TCRBV04_14	-0.229	0.912	-0.008	-0.073	-0.041
TCRBV04_15	0.062	-0.019	0.152	-0.030	-0.382
TCRBV051_5	0.099	0.220	-0.220	0.103	-0.138
TCRBV051_6	0.217	0.547	-0.239	-0.212	0.374
TCRBV051_7	0.190	0.310	-0.306	0.500	0.079
TCRBV051_8	0.257	0.064	0.223	0.123	-0.298
TCRBV051_9	-0.678	-0.295	-0.711	0.000	-0.043
TCRBV051_10	-0.118	-0.439	0.727	0.214	0.071
TCRBV051_11	-0.653	-0.542	0.310	0.083	-0.586
TCRBV051_12	0.525	0.306	0.484	-0.017	-0.192
TCRBV051_13	0.090	-0.024	0.369	0.341	0.287
TCRBV052_6	0.345	0.346	0.330	0.356	0.347
TCRBV052_7	0.030	-0.171	-0.721	-0.126	-0.001
TCRBV052_8	0.021	-0.075	0.017	0.067	-0.277
TCRBV052_9	-0.196	0.602	0.371	0.234	-0.052
TCRBV052_10	0.130	-0.388	0.273	0.417	0.100
TCRBV052_11	-0.249	0.024	0.205	0.184	-0.498
TCRBV052_12	-0.062	-0.200	0.121	0.022	-0.096
TCRBV052_13	-0.089	0.009	0.040	-0.018	0.033
TCRBV06_5	0.078	-0.029	0.024	-0.095	0.009
TCRBV06_6	0.271	-0.294	0.049	-0.043	-0.066
TCRBV06_7	0.310	-0.297	-0.242	0.058	-0.250
TCRBV06_8	0.483	0.370	-0.247	0.015	0.011
TCRBV06_9	-0.448	0.293	0.106	0.014	0.025
TCRBV06_10	-0.153	0.035	0.528	0.115	-0.405
TCRBV06_11	-0.281	-0.067	-0.067	0.047	0.211
TCRBV06_12	0.389	-0.026	-0.215	-0.238	0.453
TCRBV06_13	0.033	-0.026	0.206	-0.073	0.049
TCRBV07_5	-0.014	0.047	-0.039	0.011	0.018
TCRBV07_6	0.227	0.192	0.005	0.100	-0.283
TCRBV07_7	-0.263	-0.341	0.112	0.146	-0.545
TCRBV07_8	0.382	0.747	0.105	-0.413	0.006
TCRBV07_9	-0.333	0.133	0.263	-0.335	0.279
TCRBV07_10	0.391	-0.408	0.027	0.274	0.219
TCRBV07_11	-0.131	-0.503	0.002	0.113	0.271
TCRBV07_12	0.434	0.221	-0.291	-0.132	0.048
TCRBV07_13	-0.011	-0.130	-0.041	0.036	0.023
TCRBV081_5	0.086	0.032	0.056	-0.213	-0.105
TCRBV081_6	0.193	-0.201	0.136	-0.201	-0.024
TCRBV081_7	-0.095	-0.271	-0.059	-0.207	0.034
TCRBV081_8	0.206	-0.008	0.222	0.221	0.427
TCRBV081_9	0.407	-0.000	-0.423	0.244	-0.245
TCRBV081_10	-0.766	0.336	-0.617	-0.315	0.436
TCRBV081_11	0.065	0.307	0.349	0.129	0.242

FIG. 104B

TCRBV081_12	-0.096	-0.194	0.337	0.342	-0.766
TCRBV082_4	0.152	-0.014	0.246	0.425	0.007
TCRBV082_5	0.038	0.256	0.247	-0.130	-0.086
TCRBV082_6	0.416	-0.275	0.066	0.011	-0.159
TCRBV082_7	-0.087	0.454	0.092	-0.314	0.181
TCRBV082_8	0.059	-0.624	-0.209	0.080	0.439
TCRBV082_9	-0.152	0.156	-0.246	-0.202	-0.353
TCRBV082_10	-0.336	-0.006	-0.223	0.073	-0.089
TCRBV082_11	-0.091	0.053	0.027	0.056	0.060
TCRBV083_4	0.028	-0.002	-0.010	-0.008	0.011
TCRBV083_5	0.420	0.225	0.027	-0.068	0.065
TCRBV083_6	0.083	0.300	-0.001	-0.033	0.150
TCRBV083_7	0.160	0.325	0.076	-0.330	0.002
TCRBV083_8	-0.346	-0.023	0.080	-0.038	-0.493
TCRBV083_9	-0.127	-0.614	0.001	0.555	0.334
TCRBV083_10	0.047	-0.207	-0.094	0.227	-0.108
TCRBV083_11	-0.393	-0.111	0.051	-0.209	0.033
TCRBV083_12	0.128	0.106	-0.130	-0.095	0.006
TCRBV09_5	0.021	0.015	0.130	-0.037	0.037
TCRBV09_6	0.188	0.005	-0.215	0.126	-0.090
TCRBV09_7	-0.262	0.198	-0.043	0.581	-0.323
TCRBV09_8	0.032	0.027	0.687	-0.015	-0.227
TCRBV09_9	0.083	-0.639	0.675	-0.262	-0.329
TCRBV09_10	-1.054	0.658	-0.866	0.656	0.011
TCRBV09_11	0.516	0.151	-0.489	-0.221	0.162
TCRBV09_12	-0.028	-0.145	0.651	-0.889	0.185
TCRBV09_13	-0.131	-0.042	0.213	-0.218	-0.268
TCRBV09_14	-0.012	-0.079	-0.183	0.079	0.096
TCRBV09_15	-0.061	0.098	-0.021	-0.056	-0.017
TCRBV10_6	0.359	0.016	0.235	0.419	0.118
TCRBV10_7	-0.387	0.296	0.392	0.464	-0.202
TCRBV10_8	0.096	-0.255	-0.170	-0.041	-0.007
TCRBV10_9	-0.250	0.548	0.096	-0.434	-0.117
TCRBV10_10	0.248	-0.162	-0.131	-0.300	0.725
TCRBV10_11	0.012	-0.084	-0.251	0.056	-0.470
TCRBV10_12	-0.077	-0.374	-0.169	-0.158	-0.044
TCRBV10_13	-0.000	0.015	-0.002	-0.008	-0.002
TCRBV11_5	0.107	-0.065	0.064	-0.003	-0.075
TCRBV11_6	0.329	-0.004	-0.107	0.154	-0.308
TCRBV11_7	0.439	-0.370	-0.303	0.238	-0.027
TCRBV11_8	0.645	-0.675	-0.246	-0.410	0.190
TCRBV11_9	0.243	0.057	-0.314	-0.009	-0.196
TCRBV11_10	0.036	0.334	0.363	-0.026	0.098
TCRBV11_11	-0.266	0.096	0.118	0.047	0.154
TCRBV11_12	-0.542	0.435	0.614	-0.091	0.234
TCRBV11_13	-0.308	0.060	-0.033	-0.052	-0.020
TCRBV11_14	-0.000	0.066	-0.009	-0.035	-0.010
TCRBV11_15	-0.000	0.024	-0.003	-0.013	-0.004
TCRBV12_4	-0.133	0.057	-0.089	0.239	-0.197
TCRBV12_5	0.037	-0.293	0.115	0.011	-0.134
TCRBV12_6	-0.078	0.151	0.344	-0.135	-0.103
TCRBV12_7	-0.119	0.439	0.253	0.008	0.267
TCRBV12_8	0.405	0.615	0.094	0.038	0.418
TCRBV12_9	-0.107	-0.619	-0.186	-0.102	-0.025
TCRBV12_10	-0.187	-0.416	0.402	-0.327	0.340
TCRBV12_11	0.239	0.113	-0.603	0.127	-0.277
TCRBV12_12	-0.057	-0.048	-0.331	0.141	-0.288
TCRBV13_5	0.125	0.054	-0.022	-0.033	-0.056
TCRBV13_6	0.327	0.242	-0.202	0.243	0.075
TCRBV13_7	0.933	0.100	-0.126	0.077	-0.236
TCRBV13_8	-0.897	-0.610	0.189	-0.973	-0.351
TCRBV13_9	-0.423	0.468	0.312	0.527	0.871
TCRBV13_10	0.004	0.068	0.094	0.095	0.136
TCRBV13_11	-0.027	-0.156	-0.353	-0.034	-0.188

FIG. 104C

	41	42	43	44	45
TCRBV13_12	0.119	-0.129	-0.114	0.024	0.072
TCRBV13_13	-0.162	-0.038	0.222	0.073	-0.324
TCRBV14_5	0.009	-0.013	-0.051	-0.040	-0.079
TCRBV14_6	0.190	-0.084	0.069	-0.140	0.054
TCRBV14_7	0.074	0.023	-0.029	0.180	-0.171
TCRBV14_8	-0.226	-0.005	-0.047	-0.146	0.573
TCRBV14_9	-0.079	0.382	0.203	-0.669	-0.508
TCRBV14_10	0.102	-0.655	-0.342	0.662	0.181
TCRBV14_11	0.020	0.316	0.204	0.218	-0.145
TCRBV14_12	-0.091	0.021	0.007	-0.035	0.090
TCRBV14_13	0.001	0.016	-0.014	-0.030	0.005
TCRBV15_4	-0.212	-0.004	0.003	-0.016	0.010
TCRBV15_5	0.136	-0.135	0.161	0.079	-0.009
TCRBV15_6	-0.541	-0.191	-0.169	-0.404	-0.006
TCRBV15_7	0.265	0.696	-0.099	-0.147	0.133
TCRBV15_8	0.413	-0.865	-0.073	-0.630	0.245
TCRBV15_9	-0.463	0.061	-0.047	0.195	-0.436
TCRBV15_10	0.575	0.393	0.342	0.538	0.152
TCRBV15_11	0.475	0.120	0.024	0.145	-0.039
TCRBV15_12	0.034	-0.118	0.001	0.040	-0.012
TCRBV16_5	0.032	0.045	0.087	0.078	-0.158
TCRBV16_6	0.279	0.137	-0.370	-0.104	-0.016
TCRBV16_7	0.533	0.447	0.849	0.863	-0.185
TCRBV16_8	0.124	-0.748	0.162	0.512	0.171
TCRBV16_9	0.019	0.096	0.247	-0.373	0.093
TCRBV16_10	-0.520	0.806	0.104	0.097	-0.098
TCRBV16_11	-0.206	-0.377	-0.578	0.008	-0.138
TCRBV16_12	0.382	-0.335	0.203	-0.129	-0.135
TCRBV16_13	-0.032	0.035	0.075	-0.014	0.058
TCRBV18_3	-0.016	0.019	0.005	0.037	-0.004
TCRBV18_4	0.166	-0.041	-0.161	0.006	0.086
TCRBV18_5	0.042	0.049	-0.283	0.054	-0.104
TCRBV18_6	-0.342	0.136	0.214	-0.084	0.116
TCRBV18_7	0.363	0.560	-0.685	0.208	-0.378
TCRBV18_8	0.556	-0.420	-0.280	0.138	0.096
TCRBV18_9	0.074	0.325	-0.210	-0.176	0.642
TCRBV18_10	0.067	0.190	0.193	-0.374	-0.180
TCRBV18_11	0.203	0.020	0.194	0.040	0.013
TCRBV18_12	-0.044	-0.012	0.018	-0.008	0.021
TCRBV18_13	0.050	0.015	-0.020	-0.130	-0.089
TCRBV20_5	0.033	-0.102	0.037	-0.094	-0.069
TCRBV20_6	0.225	-0.285	0.058	0.011	0.039
TCRBV20_7	0.344	0.159	-0.436	-0.026	-0.330
TCRBV20_8	0.169	0.122	0.067	0.256	-0.097
TCRBV20_9	-0.934	-0.037	0.056	0.166	0.213
TCRBV20_10	0.279	-0.185	0.293	0.184	0.632
TCRBV20_11	0.255	0.298	-0.618	-0.325	-0.141
TCRBV20_12	0.142	-0.008	0.462	-0.528	-0.231
TCRBV20_13	0.340	0.000	0.222	0.169	0.014
TCRBV20_14	-0.172	-0.004	0.002	-0.013	0.008
TCRBV01_6	-0.008	0.039	-0.042	0.005	0.023
TCRBV01_7	0.197	-0.173	-0.288	-0.100	0.008
TCRBV01_8	-0.123	-0.454	-0.154	0.432	-0.048
TCRBV01_9	0.205	0.140	0.123	-0.455	-0.171
TCRBV01_10	-0.222	0.160	0.276	0.222	-0.278
TCRBV01_11	0.292	0.071	-0.028	-0.375	-0.078
TCRBV01_12	0.009	0.185	-0.003	0.069	0.396
TCRBV01_13	-0.005	0.081	0.081	0.041	0.088
TCRBV01_14	0.006	0.002	0.009	-0.005	-0.011
TCRBV02_6	0.159	-0.260	0.187	0.004	-0.005
TCRBV02_7	-0.029	-0.161	0.034	-0.273	0.034

FIG. 104D

TCRBV02_8	0.098	0.433	-0.381	-0.098	-0.198
TCRBV02_9	0.017	-0.018	-0.018	0.194	0.098
TCRBV02_10	-0.038	-0.227	-0.027	0.011	0.026
TCRBV02_11	-0.001	-0.113	0.216	-0.118	-0.331
TCRBV02_12	0.279	0.095	-0.413	0.015	-0.080
TCRBV02_13	0.009	-0.116	-0.020	0.002	-0.104
TCRBV03_4	-0.013	0.010	0.011	0.007	0.015
TCRBV03_5	-0.025	0.015	0.007	-0.000	0.021
TCRBV03_6	0.163	-0.116	0.344	0.213	0.048
TCRBV03_7	0.277	-0.285	0.433	-0.356	0.058
TCRBV03_8	0.020	0.170	0.149	0.194	-0.044
TCRBV03_9	-0.284	-0.207	-0.179	0.022	-0.169
TCRBV03_10	0.231	0.089	-0.083	-0.048	0.072
TCRBV03_11	-0.214	0.379	-0.361	0.063	0.208
TCRBV03_12	-0.092	0.246	-0.180	-0.006	0.055
TCRBV03_13	0.288	-0.249	-0.168	-0.257	-0.334
TCRBV04_6	0.038	0.039	0.030	0.011	-0.075
TCRBV04_7	0.113	0.046	0.327	0.131	-0.024
TCRBV04_8	-0.059	0.336	-0.189	-0.099	0.100
TCRBV04_9	-0.006	0.348	0.031	0.458	-0.568
TCRBV04_10	-0.236	-0.019	-0.190	-0.179	0.643
TCRBV04_11	0.036	-0.557	0.245	-0.224	0.077
TCRBV04_12	-0.063	-0.095	-0.046	-0.262	0.033
TCRBV04_13	0.168	-0.099	-0.476	-0.189	-0.186
TCRBV04_14	0.059	-0.057	0.263	0.273	0.237
TCRBV04_15	-0.051	0.058	0.006	0.080	-0.237
TCRBV051_5	-0.202	0.112	0.218	-0.148	0.224
TCRBV051_6	-0.272	0.191	0.410	0.223	0.201
TCRBV051_7	-0.589	0.082	-0.136	0.391	-0.233
TCRBV051_8	-0.226	-0.202	0.059	-0.229	0.035
TCRBV051_9	0.068	-0.366	-0.325	0.095	-0.026
TCRBV051_10	0.580	0.088	0.057	-0.052	0.363
TCRBV051_11	0.718	-0.212	0.094	0.380	-0.065
TCRBV051_12	-0.600	0.238	-0.455	-0.313	-0.668
TCRBV051_13	-0.129	0.131	0.449	-0.251	0.164
TCRBV052_6	-0.069	-0.250	0.178	0.176	0.189
TCRBV052_7	-0.213	-0.079	-0.016	0.265	-0.368
TCRBV052_8	0.031	-0.282	0.204	0.158	-0.025
TCRBV052_9	0.175	0.376	0.240	-0.103	-0.355
TCRBV052_10	-0.583	-0.022	-0.262	-0.122	0.219
TCRBV052_11	0.170	0.078	-0.119	-0.164	0.276
TCRBV052_12	-0.180	0.132	0.070	-0.126	0.171
TCRBV052_13	0.016	0.109	0.076	0.011	-0.115
TCRBV06_5	0.174	-0.151	0.083	-0.049	0.025
TCRBV06_6	0.094	-0.099	-0.076	0.013	0.039
TCRBV06_7	0.192	0.040	-0.085	-0.116	-0.009
TCRBV06_8	0.036	0.121	-0.408	0.239	-0.035
TCRBV06_9	-0.167	-0.409	-0.408	-0.232	0.120
TCRBV06_10	0.032	-0.135	0.658	0.044	-0.392
TCRBV06_11	-0.117	0.385	0.348	-0.226	0.272
TCRBV06_12	0.089	0.248	-0.207	0.171	-0.021
TCRBV06_13	0.017	0.053	0.068	-0.011	-0.069
TCRBV07_5	-0.068	-0.069	0.020	0.062	0.073
TCRBV07_6	0.427	-0.064	-0.079	0.085	-0.177
TCRBV07_7	0.106	-0.006	-0.073	0.320	-0.007
TCRBV07_8	-0.111	-0.269	0.015	-0.227	0.231
TCRBV07_9	-0.042	-0.044	-0.094	0.044	-0.036
TCRBV07_10	0.093	0.084	0.100	-0.267	0.144
TCRBV07_11	0.005	0.261	0.149	-0.273	-0.037
TCRBV07_12	-0.064	0.155	-0.043	0.106	-0.269
TCRBV07_13	0.003	0.004	-0.022	-0.016	0.006
TCRBV081_5	-0.100	0.036	0.021	0.059	0.115
TCRBV081_6	-0.302	0.097	0.210	0.221	-0.070

FIG. 105A

TCRBV081_7	0.143	-0.256	-0.154	-0.257	-0.003
TCRBV081_8	-0.533	-0.017	-0.247	-0.523	-0.273
TCRBV081_9	0.409	0.125	0.085	0.383	-0.059
TCRBV081_10	0.115	0.107	-0.021	-0.005	0.059
TCRBV081_11	0.243	-0.014	-0.008	-0.052	0.018
TCRBV081_12	0.025	-0.079	0.115	0.174	0.214
TCRBV082_4	0.110	-0.106	0.144	0.055	-0.096
TCRBV082_5	-0.022	0.044	-0.125	0.093	0.141
TCRBV082_6	-0.118	0.014	0.008	-0.056	-0.152
TCRBV082_7	-0.034	0.002	-0.023	-0.636	-0.279
TCRBV082_8	-0.063	0.012	0.261	-0.039	-0.620
TCRBV082_9	-0.102	0.047	-0.351	0.347	0.384
TCRBV082_10	0.117	0.141	0.145	0.282	0.165
TCRBV082_11	0.112	-0.154	-0.059	-0.046	0.457
TCRBV083_4	0.023	-0.019	-0.009	-0.021	-0.023
TCRBV083_5	0.163	0.419	-0.137	0.090	0.115
TCRBV083_6	-0.142	-0.047	-0.115	0.011	0.004
TCRBV083_7	-0.047	0.053	-0.296	0.103	-0.167
TCRBV083_8	-0.111	-0.343	0.287	-0.127	0.027
TCRBV083_9	-0.283	-0.019	0.264	-0.232	0.001
TCRBV083_10	-0.006	-0.262	0.311	-0.107	-0.084
TCRBV083_11	-0.054	-0.017	-0.129	0.166	0.022
TCRBV083_12	0.458	0.236	-0.177	0.119	0.106
TCRBV09_5	0.020	0.005	0.017	0.033	-0.002
TCRBV09_6	0.115	0.109	-0.169	0.327	0.114
TCRBV09_7	0.493	-0.420	-0.372	-0.495	-0.386
TCRBV09_8	0.001	-0.052	-0.212	0.141	-0.020
TCRBV09_9	0.354	-0.147	0.150	0.403	0.036
TCRBV09_10	0.607	0.764	-0.523	-0.397	0.146
TCRBV09_11	0.069	-0.288	-0.111	-0.116	0.190
TCRBV09_12	-0.530	-0.222	-0.710	0.327	0.054
TCRBV09_13	-0.319	-0.208	0.368	-0.038	0.160
TCRBV09_14	-0.359	0.005	0.259	-0.212	0.051
TCRBV09_15	-0.120	-0.069	0.103	-0.017	-0.028
TCRBV10_6	-0.139	-0.231	-0.013	0.171	0.090
TCRBV10_7	-0.343	0.337	0.297	-0.138	0.132
TCRBV10_8	-0.370	0.224	0.140	-0.305	-0.050
TCRBV10_9	-0.126	-0.257	-0.157	-0.083	0.190
TCRBV10_10	0.801	-0.238	-0.261	0.001	-0.263
TCRBV10_11	0.076	0.272	0.089	0.333	0.093
TCRBV10_12	0.107	-0.112	-0.101	0.018	-0.199
TCRBV10_13	-0.006	0.005	0.005	0.003	0.007
TCRBV11_5	0.053	0.005	0.119	0.105	-0.081
TCRBV11_6	-0.048	-0.165	0.128	-0.257	0.144
TCRBV11_7	-0.054	0.190	0.134	0.111	0.170
TCRBV11_8	-0.048	-0.193	0.169	0.081	0.239
TCRBV11_9	-0.048	0.054	-0.369	-0.042	0.034
TCRBV11_10	-0.024	0.281	-0.112	0.043	0.008
TCRBV11_11	0.254	-0.011	0.052	0.019	-0.155
TCRBV11_12	0.259	-0.033	-0.127	-0.200	-0.398
TCRBV11_13	0.044	-0.105	-0.055	-0.048	-0.073
TCRBV11_14	-0.028	0.021	0.024	0.015	0.032
TCRBV11_15	-0.010	0.008	0.009	0.006	0.012
TCRBV12_4	0.141	0.044	0.018	-0.126	0.033
TCRBV12_5	0.228	0.066	-0.140	-0.056	-0.050
TCRBV12_6	-0.108	-0.114	0.092	-0.231	0.140
TCRBV12_7	-0.251	-0.173	0.523	0.142	-0.265
TCRBV12_8	0.090	-0.242	-0.180	0.239	0.181
TCRBV12_9	-0.192	0.101	-0.204	-0.012	-0.061
TCRBV12_10	0.400	0.009	0.024	-0.023	-0.104
TCRBV12_11	-0.153	0.144	-0.023	-0.018	0.077
TCRBV12_12	-0.155	0.165	-0.110	0.084	0.048
TCRBV13_5	0.015	0.084	0.027	-0.118	0.011
TCRBV13_6	0.168	-0.328	0.359	0.024	-0.082

FIG. 105B

TCRBV13_7	0.092	-0.328	-0.345	0.286	-0.170
TCRBV13_8	-0.340	0.461	-0.080	-0.091	-0.058
TCRBV13_9	0.075	0.131	-0.278	0.089	0.201
TCRBV13_10	0.529	0.005	0.015	-0.308	-0.069
TCRBV13_11	-0.316	0.032	0.076	0.260	-0.063
TCRBV13_12	-0.032	-0.099	0.102	-0.062	0.020
TCRBV13_13	-0.189	0.042	0.125	-0.080	0.210
TCRBV14_5	-0.065	0.052	-0.071	0.051	-0.018
TCRBV14_6	0.148	-0.051	0.148	0.037	-0.207
TCRBV14_7	0.080	-0.167	-0.558	0.251	0.071
TCRBV14_8	0.176	0.100	0.338	-0.368	0.018
TCRBV14_9	-0.044	-0.026	0.142	-0.020	0.090
TCRBV14_10	-0.334	0.092	0.208	-0.122	0.162
TCRBV14_11	0.180	0.128	0.006	0.205	-0.054
TCRBV14_12	-0.145	-0.134	-0.214	-0.037	-0.069
TCRBV14_13	0.004	0.005	0.000	0.002	0.009
TCRBV15_4	0.033	-0.124	-0.041	-0.048	-0.104
TCRBV15_5	0.353	0.060	0.107	0.027	0.241
TCRBV15_6	-0.072	-0.117	0.075	-0.346	-0.236
TCRBV15_7	-0.234	-0.026	-0.080	-0.036	-0.307
TCRBV15_8	0.241	0.311	-0.025	0.026	0.377
TCRBV15_9	-0.335	-0.005	0.067	-0.097	-0.079
TCRBV15_10	-0.114	-0.104	0.116	0.456	0.038
TCRBV15_11	0.516	0.032	-0.164	-0.179	0.018
TCRBV15_12	-0.037	0.024	-0.082	0.029	-0.018
TCRBV16_5	0.084	0.060	0.099	-0.039	0.136
TCRBV16_6	0.165	0.342	0.304	-0.148	0.209
TCRBV16_7	0.006	0.583	0.143	0.354	-0.294
TCRBV16_8	0.301	-0.713	-0.273	-0.172	0.245
TCRBV16_9	0.254	0.293	0.173	0.137	-0.117
TCRBV16_10	-0.768	-0.458	-0.242	-0.033	-0.102
TCRBV16_11	-0.199	-0.411	0.120	0.305	-0.053
TCRBV16_12	-0.119	0.380	0.015	-0.471	-0.175
TCRBV16_13	-0.026	0.037	0.006	-0.004	0.076
TCRBV18_3	0.023	-0.030	-0.046	-0.036	-0.003
TCRBV18_4	0.163	0.191	-0.073	0.092	-0.110
TCRBV18_5	0.169	0.430	0.267	0.210	-0.288
TCRBV18_6	0.197	0.469	0.390	0.074	0.354
TCRBV18_7	0.075	-0.252	0.085	-0.360	0.329
TCRBV18_8	-0.609	-0.192	-0.038	0.136	-0.541
TCRBV18_9	0.286	-0.175	0.130	0.129	0.338
TCRBV18_10	0.634	0.322	-0.199	-0.376	-0.065
TCRBV18_11	-0.021	0.335	-0.248	0.157	-0.256
TCRBV18_12	0.009	0.003	-0.028	-0.007	0.056
TCRBV18_13	-0.078	0.023	0.007	0.026	0.080
TCRBV20_5	0.135	0.039	0.111	0.058	-0.109
TCRBV20_6	0.572	-0.241	-0.132	0.512	-0.225
TCRBV20_7	0.259	0.389	0.205	-0.235	-0.309
TCRBV20_8	-0.568	0.514	-0.402	-0.123	0.668
TCRBV20_9	0.190	-0.622	0.318	0.083	0.232
TCRBV20_10	-0.154	0.268	-0.126	0.243	0.034
TCRBV20_11	-0.080	0.205	0.361	-0.047	-0.257
TCRBV20_12	-0.106	-0.227	-0.099	-0.595	-0.096
TCRBV20_13	0.075	-0.173	-0.230	-0.025	0.075
TCRBV20_14	0.026	-0.100	-0.033	-0.039	-0.084
	46	47	48	49	50
TCRBV01_6	-0.094	-0.019	-0.109	-0.013	-0.073
TCRBV01_7	0.014	0.212	-0.055	-0.017	0.014
TCRBV01_8	0.056	0.090	-0.072	0.048	0.034
TCRBV01_9	0.068	-0.044	0.100	-0.198	-0.050
TCRBV01_10	-0.258	0.237	-0.029	-0.367	-0.009
TCRBV01_11	-0.110	-0.140	0.044	0.336	0.034

FIG. 105C

TCRBV01_12	0.159	0.002	-0.125	0.152	-0.053
TCRBV01_13	0.102	-0.126	0.078	0.066	0.002
TCRBV01_14	-0.007	0.009	0.004	0.001	-0.001
TCRBV02_6	-0.031	0.204	-0.019	-0.316	0.276
TCRBV02_7	0.109	-0.019	-0.011	-0.097	0.167
TCRBV02_8	0.281	-0.141	0.150	0.408	-0.069
TCRBV02_9	-0.286	0.030	-0.174	0.038	-0.303
TCRBV02_10	0.192	-0.164	-0.161	-0.066	-0.093
TCRBV02_11	-0.338	-0.040	-0.252	-0.136	-0.029
TCRBV02_12	0.021	-0.169	0.204	-0.042	-0.002
TCRBV02_13	0.026	0.060	-0.059	-0.005	-0.002
TCRBV03_4	0.001	0.006	0.008	0.006	0.001
TCRBV03_5	-0.069	0.006	0.005	-0.009	-0.004
TCRBV03_6	0.100	0.046	-0.447	0.194	-0.271
TCRBV03_7	-0.060	-0.022	0.007	-0.122	-0.055
TCRBV03_8	-0.143	-0.036	-0.064	0.035	0.103
TCRBV03_9	-0.020	0.009	0.023	-0.056	0.289
TCRBV03_10	0.297	0.246	0.266	-0.166	-0.115
TCRBV03_11	-0.196	0.167	0.157	0.091	0.038
TCRBV03_12	0.065	-0.072	-0.010	0.084	0.105
TCRBV03_13	-0.045	-0.128	-0.110	-0.047	-0.194
TCRBV04_6	0.082	0.035	0.012	0.007	-0.039
TCRBV04_7	0.008	0.259	0.142	-0.115	0.027
TCRBV04_8	0.162	0.092	-0.010	0.131	0.000
TCRBV04_9	0.114	-0.324	0.036	-0.122	0.068
TCRBV04_10	0.366	0.090	-0.088	-0.049	0.112
TCRBV04_11	-0.055	-0.161	-0.064	0.022	-0.144
TCRBV04_12	-0.139	-0.093	-0.181	0.428	0.080
TCRBV04_13	-0.510	0.153	0.132	-0.270	0.035
TCRBV04_14	0.009	0.119	0.039	0.045	-0.258
TCRBV04_15	-0.036	-0.169	-0.018	-0.078	0.118
TCRBV051_5	-0.142	-0.230	-0.047	0.164	0.051
TCRBV051_6	0.031	0.039	-0.233	-0.315	0.022
TCRBV051_7	-0.317	-0.028	0.328	0.079	-0.235
TCRBV051_8	-0.036	0.029	0.394	0.013	-0.065
TCRBV051_9	0.313	-0.371	-0.116	0.090	0.029
TCRBV051_10	-0.400	0.166	0.043	-0.051	0.027
TCRBV051_11	-0.185	-0.056	-0.146	-0.120	0.158
TCRBV051_12	0.242	0.176	-0.147	0.103	0.190
TCRBV051_13	0.148	-0.206	-0.092	0.100	0.089
TCRBV052_6	0.117	-0.030	0.065	-0.251	-0.007
TCRBV052_7	-0.120	-0.137	0.255	0.094	0.104
TCRBV052_8	0.042	0.040	-0.246	0.084	-0.036
TCRBV052_9	-0.258	0.016	-0.169	0.018	0.166
TCRBV052_10	-0.054	-0.203	0.129	-0.267	-0.060
TCRBV052_11	-0.208	-0.155	-0.089	0.201	-0.094
TCRBV052_12	0.004	-0.018	0.034	0.156	0.243
TCRBV052_13	0.132	0.005	0.005	0.030	-0.049
TCRBV06_5	0.057	0.041	-0.017	-0.034	-0.080
TCRBV06_6	0.040	0.038	-0.146	-0.090	0.022
TCRBV06_7	0.290	0.121	0.013	0.064	0.088
TCRBV06_8	-0.119	-0.038	0.030	0.013	0.001
TCRBV06_9	0.051	-0.117	-0.103	0.113	0.131
TCRBV06_10	0.353	-0.158	0.200	0.057	-0.100
TCRBV06_11	-0.067	0.067	-0.146	-0.070	0.135
TCRBV06_12	-0.561	0.259	-0.113	-0.092	-0.072
TCRBV06_13	-0.114	0.006	0.117	0.047	-0.228
TCRBV07_5	-0.003	-0.030	0.077	0.092	-0.148
TCRBV07_6	0.045	0.184	0.000	0.076	-0.069
TCRBV07_7	-0.081	0.100	-0.038	-0.276	-0.058
TCRBV07_8	0.334	-0.083	0.141	-0.182	0.238
TCRBV07_9	-0.152	0.034	-0.184	0.371	-0.039
TCRBV07_10	-0.005	-0.047	-0.242	-0.022	0.043

FIG. 105D

TCRBV07_11	-0.100	0.018	0.005	-0.117	0.116
TCRBV07_12	-0.004	0.032	0.085	0.095	-0.168
TCRBV07_13	-0.106	0.012	-0.007	-0.028	-0.017
TCRBV081_5	-0.041	-0.089	-0.063	-0.025	0.020
TCRBV081_6	-0.119	-0.006	0.061	-0.235	-0.281
TCRBV081_7	-0.140	-0.080	-0.004	0.018	0.024
TCRBV081_8	0.159	-0.219	-0.120	-0.007	0.048
TCRBV081_9	0.093	0.200	-0.247	0.106	0.147
TCRBV081_10	-0.136	-0.137	-0.111	0.069	0.097
TCRBV081_11	0.025	0.236	0.104	0.098	0.072
TCRBV081_12	0.158	0.096	0.380	-0.025	-0.127
TCRBV082_4	-0.060	-0.361	0.341	0.085	-0.004
TCRBV082_5	-0.219	0.128	0.042	-0.060	0.123
TCRBV082_6	-0.085	-0.150	0.327	0.075	0.364
TCRBV082_7	-0.219	0.150	-0.305	-0.219	-0.305
TCRBV082_8	-0.195	-0.015	-0.194	0.263	-0.147
TCRBV082_9	0.371	0.014	-0.077	-0.062	-0.018
TCRBV082_10	0.190	0.173	-0.157	-0.194	-0.050
TCRBV082_11	0.217	0.062	0.022	0.112	0.037
TCRBV083_4	-0.002	-0.009	-0.010	-0.004	-0.019
TCRBV083_5	0.042	0.073	0.324	0.204	0.112
TCRBV083_6	-0.154	-0.021	0.041	0.021	0.276
TCRBV083_7	-0.065	-0.154	-0.219	-0.027	-0.135
TCRBV083_8	-0.077	0.033	0.189	-0.171	0.023
TCRBV083_9	-0.103	0.037	-0.096	0.040	-0.201
TCRBV083_10	0.231	-0.167	0.210	-0.153	-0.144
TCRBV083_11	0.083	-0.156	-0.167	-0.175	0.197
TCRBV083_12	0.045	0.364	-0.272	0.265	-0.109
TCRBV09_5	0.066	0.031	-0.028	0.002	-0.018
TCRBV09_6	0.294	-0.010	-0.068	-0.224	0.112
TCRBV09_7	0.362	0.295	-0.238	-0.103	-0.191
TCRBV09_8	-0.228	0.185	-0.183	0.216	0.030
TCRBV09_9	-0.213	-0.273	-0.309	-0.218	0.227
TCRBV09_10	0.033	-0.354	0.222	-0.147	0.034
TCRBV09_11	0.137	-0.168	0.179	-0.043	-0.165
TCRBV09_12	0.027	-0.706	0.063	-0.020	-0.256
TCRBV09_13	-0.170	0.004	-0.032	0.059	-0.019
TCRBV09_14	0.119	0.063	-0.215	0.082	0.118
TCRBV09_15	0.022	0.182	-0.209	0.092	0.044
TCRBV10_6	-0.024	-0.097	0.226	-0.236	-0.050
TCRBV10_7	0.094	0.025	-0.184	-0.020	-0.310
TCRBV10_8	0.261	0.252	0.308	0.122	-0.093
TCRBV10_9	-0.443	0.090	-0.022	0.150	0.356
TCRBV10_10	0.020	-0.452	0.064	-0.243	0.097
TCRBV10_11	-0.026	0.083	-0.245	0.121	-0.043
TCRBV10_12	0.116	0.095	-0.150	0.103	0.043
TCRBV10_13	0.000	0.003	0.004	0.003	0.001
TCRBV11_5	-0.032	0.031	0.073	-0.073	-0.188
TCRBV11_6	0.014	-0.101	0.013	-0.160	-0.153
TCRBV11_7	0.026	-0.095	0.063	0.013	-0.193
TCRBV11_8	0.154	-0.046	0.049	0.026	0.307
TCRBV11_9	0.176	0.062	-0.284	0.256	-0.062
TCRBV11_10	-0.308	0.023	-0.191	-0.155	0.118
TCRBV11_11	-0.248	0.330	0.097	0.155	0.157
TCRBV11_12	0.140	-0.124	-0.002	-0.078	-0.102
TCRBV11_13	0.004	0.123	-0.006	0.007	0.009
TCRBV11_14	0.001	0.014	0.018	0.012	0.003
TCRBV11_15	0.001	0.005	0.007	0.005	0.001
TCRBV12_4	-0.075	0.100	0.066	0.006	0.094
TCRBV12_5	0.233	0.034	0.101	0.012	0.035
TCRBV12_6	0.107	0.038	-0.088	0.073	0.026
TCRBV12_7	-0.081	0.088	0.119	0.191	-0.084
TCRBV12_8	-0.003	0.093	0.350	0.278	0.005
TCRBV12_9	0.107	0.007	-0.488	0.051	-0.149

FIG. 106A

TCRBV12_10	-0.016	0.048	0.237	-0.142	0.207
TCRBV12_11	-0.090	-0.388	-0.127	-0.193	0.108
TCRBV12_12	-0.183	-0.019	-0.171	-0.275	-0.243
TCRBV13_5	0.044	-0.033	0.014	0.017	-0.012
TCRBV13_6	-0.271	-0.059	0.035	0.203	0.209
TCRBV13_7	-0.030	0.250	0.077	-0.161	-0.196
TCRBV13_8	-0.160	0.156	0.398	0.084	-0.160
TCRBV13_9	0.137	0.118	0.070	0.023	0.158
TCRBV13_10	0.164	-0.032	-0.287	-0.074	-0.152
TCRBV13_11	0.127	-0.228	-0.211	0.086	0.066
TCRBV13_12	0.009	-0.035	-0.054	0.065	0.008
TCRBV13_13	-0.020	-0.136	-0.042	-0.243	0.078
TCRBV14_5	0.004	-0.033	-0.009	0.002	0.036
TCRBV14_6	0.185	-0.045	0.216	0.046	-0.146
TCRBV14_7	-0.272	0.160	-0.134	-0.059	0.053
TCRBV14_8	-0.308	0.053	0.100	-0.057	0.089
TCRBV14_9	0.054	-0.639	-0.201	-0.271	0.040
TCRBV14_10	-0.316	0.026	-0.028	0.343	-0.065
TCRBV14_11	0.564	0.282	0.078	0.100	-0.028
TCRBV14_12	0.084	0.183	-0.028	-0.108	0.024
TCRBV14_13	0.006	0.012	0.005	0.002	-0.004
TCRBV15_4	0.018	0.085	-0.051	-0.025	0.026
TCRBV15_5	-0.042	-0.167	-0.165	-0.102	-0.247
TCRBV15_6	-0.059	0.224	-0.017	0.096	-0.169
TCRBV15_7	0.054	0.265	-0.259	-0.083	0.285
TCRBV15_8	-0.097	0.013	0.078	0.146	-0.113
TCRBV15_9	-0.133	-0.227	0.184	0.039	0.053
TCRBV15_10	0.068	-0.079	0.066	0.147	0.153
TCRBV15_11	0.274	0.090	-0.031	-0.191	-0.183
TCRBV15_12	-0.155	0.018	0.031	-0.020	0.091
TCRBV16_5	0.036	0.104	0.034	-0.229	0.176
TCRBV16_6	0.142	-0.036	0.005	0.102	0.301
TCRBV16_7	-0.134	-0.585	-0.273	0.005	-0.060
TCRBV16_8	-0.189	0.060	0.007	0.025	-0.232
TCRBV16_9	-0.051	0.020	0.006	0.007	0.051
TCRBV16_10	-0.131	0.268	-0.036	0.047	-0.116
TCRBV16_11	-0.172	0.251	0.222	-0.016	-0.005
TCRBV16_12	0.037	-0.280	-0.150	0.103	-0.017
TCRBV16_13	0.044	-0.063	0.005	0.029	0.065
TCRBV18_3	0.029	-0.042	0.002	-0.023	-0.023
TCRBV18_4	0.318	-0.139	0.208	-0.178	0.000
TCRBV18_5	0.329	-0.013	-0.063	0.201	0.163
TCRBV18_6	0.299	0.392	0.038	-0.194	-0.116
TCRBV18_7	-0.813	-0.105	0.141	0.029	-0.013
TCRBV18_8	0.313	0.305	0.063	-0.275	0.014
TCRBV18_9	-0.229	-0.283	0.005	0.047	-0.084
TCRBV18_10	-0.205	-0.198	0.318	0.048	-0.313
TCRBV18_11	-0.155	-0.036	0.150	0.090	-0.068
TCRBV18_12	-0.013	0.008	0.008	-0.003	0.035
TCRBV18_13	-0.057	-0.076	-0.031	-0.018	0.022
TCRBV20_5	0.001	0.172	0.110	-0.027	-0.213
TCRBV20_6	-0.161	0.200	0.001	0.219	0.053
TCRBV20_7	-0.277	0.053	0.085	-0.109	0.113
TCRBV20_8	-0.077	0.280	-0.130	-0.204	-0.219
TCRBV20_9	0.312	-0.332	0.028	0.436	-0.109
TCRBV20_10	-0.214	-0.152	-0.028	-0.169	0.013
TCRBV20_11	0.151	-0.090	0.053	-0.048	-0.151
TCRBV20_12	0.152	0.226	-0.058	-0.109	0.329
TCRBV20_13	0.027	-0.203	-0.184	0.039	0.059
TCRBV20_14	0.015	0.069	-0.041	-0.020	0.021

51 52

TCRBV01_6 0.016 0.001

FIG. 106B

TCRBV01_7	-0.020	-0.075
TCRBV01_8	-0.138	0.225
TCRBV01_9	-0.111	-0.177
TCRBV01_10	0.077	0.009
TCRBV01_11	-0.103	-0.006
TCRBV01_12	0.204	-0.057
TCRBV01_13	0.045	0.035
TCRBV01_14	-0.004	-0.002
TCRBV02_6	0.155	-0.115
TCRBV02_7	-0.123	-0.062
TCRBV02_8	-0.486	0.108
TCRBV02_9	0.044	0.010
TCRBV02_10	-0.018	-0.073
TCRBV02_11	-0.030	-0.039
TCRBV02_12	-0.053	-0.132
TCRBV02_13	0.004	-0.038
TCRBV03_4	0.013	0.009
TCRBV03_5	-0.013	0.017
TCRBV03_6	-0.052	-0.094
TCRBV03_7	0.096	-0.156
TCRBV03_8	0.103	0.047
TCRBV03_9	0.047	0.087
TCRBV03_10	-0.035	-0.112
TCRBV03_11	-0.110	0.052
TCRBV03_12	-0.035	-0.024
TCRBV03_13	-0.046	0.128
TCRBV04_6	-0.061	-0.174
TCRBV04_7	0.157	-0.086
TCRBV04_8	-0.013	-0.501
TCRBV04_9	-0.157	0.379
TCRBV04_10	0.170	0.114
TCRBV04_11	-0.081	0.102
TCRBV04_12	-0.178	0.053
TCRBV04_13	0.221	0.006
TCRBV04_14	-0.022	0.093
TCRBV04_15	-0.218	-0.117
TCRBV051_5	-0.130	-0.082
TCRBV051_6	-0.092	-0.197
TCRBV051_7	-0.016	0.098
TCRBV051_8	0.115	0.071
TCRBV051_9	-0.193	0.118
TCRBV051_10	0.184	0.174
TCRBV051_11	0.140	-0.014
TCRBV051_12	0.193	0.064
TCRBV051_13	-0.046	-0.243
TCRBV052_6	0.062	0.085
TCRBV052_7	0.001	0.106
TCRBV052_8	0.140	0.107
TCRBV052_9	0.067	0.130
TCRBV052_10	-0.041	-0.072
TCRBV052_11	-0.120	-0.036
TCRBV052_12	-0.079	0.038
TCRBV052_13	-0.084	-0.030
TCRBV06_5	-0.046	-0.081
TCRBV06_6	-0.200	-0.093
TCRBV06_7	0.281	0.003
TCRBV06_8	-0.182	-0.116
TCRBV06_9	0.037	0.149
TCRBV06_10	0.050	-0.020
TCRBV06_11	-0.010	0.049
TCRBV06_12	0.121	0.093
TCRBV06_13	0.004	-0.075
TCRBV07_6	0.025	-0.118

FIG. 106C

TCRBV07_7	-0.084	-0.014
TCRBV07_8	0.078	0.105
TCRBV07_9	-0.127	-0.129
TCRBV07_10	0.244	0.127
TCRBV07_11	-0.027	0.159
TCRBV07_12	-0.098	-0.110
TCRBV07_13	-0.048	0.008
TCRBV081_5	0.068	0.013
TCRBV081_6	-0.048	0.102
TCRBV081_7	0.022	0.081
TCRBV081_8	-0.095	-0.081
TCRBV081_9	-0.026	-0.092
TCRBV081_10	0.012	0.096
TCRBV081_11	-0.043	0.029
TCRBV081_12	0.110	-0.148
TCRBV082_4	0.344	-0.050
TCRBV082_5	-0.179	-0.047
TCRBV082_6	0.337	-0.016
TCRBV082_7	-0.287	0.254
TCRBV082_8	0.044	-0.045
TCRBV082_9	-0.169	0.056
TCRBV082_10	-0.109	-0.130
TCRBV082_11	0.020	-0.021
TCRBV083_4	-0.003	0.009
TCRBV083_5	-0.066	-0.001
TCRBV083_6	-0.157	-0.003
TCRBV083_7	0.199	0.101
TCRBV083_8	-0.327	0.003
TCRBV083_9	0.173	0.032
TCRBV083_10	0.206	-0.042
TCRBV083_11	-0.173	0.039
TCRBV083_12	0.148	-0.139
TCRBV09_5	0.036	0.008
TCRBV09_6	0.075	0.122
TCRBV09_7	-0.183	0.216
TCRBV09_8	0.168	-0.023
TCRBV09_9	0.002	-0.075
TCRBV09_10	0.084	-0.016
TCRBV09_11	0.143	0.010
TCRBV09_12	0.013	-0.297
TCRBV09_13	-0.277	-0.142
TCRBV09_14	-0.264	0.022
TCRBV09_15	-0.030	-0.055
TCRBV10_6	-0.015	-0.051
TCRBV10_7	-0.087	-0.026
TCRBV10_8	0.007	-0.177
TCRBV10_9	0.026	0.096
TCRBV10_10	-0.149	0.220
TCRBV10_11	0.094	-0.065
TCRBV10_12	0.117	-0.002
TCRBV10_13	0.006	0.004
TCRBV11_5	0.041	0.053
TCRBV11_6	0.108	0.035
TCRBV11_7	-0.150	0.218
TCRBV11_8	-0.292	-0.158
TCRBV11_9	0.194	-0.136
TCRBV11_10	-0.113	0.030
TCRBV11_11	0.093	-0.169
TCRBV11_12	0.019	0.053
TCRBV11_13	0.026	-0.000
TCRBV11_14	0.029	0.019
TCRBV11_15	0.011	0.007
TCRBV12_4	-0.159	-0.079

FIG. 106D

TCRBV12_5	0.077	0.128
TCRBV12_6	-0.113	-0.017
TCRBV12_7	-0.022	0.280
TCRBV12_8	0.151	0.020
TCRBV12_9	0.132	-0.241
TCRBV12_10	0.001	-0.051
TCRBV12_11	-0.136	-0.088
TCRBV12_12	0.069	0.049
TCRBV13_5	0.074	-0.037
TCRBV13_6	-0.307	-0.069
TCRBV13_7	0.086	-0.060
TCRBV13_8	-0.001	0.140
TCRBV13_9	0.061	-0.077
TCRBV13_10	0.175	-0.011
TCRBV13_11	0.064	0.225
TCRBV13_12	0.014	0.036
TCRBV13_13	-0.165	-0.147
TCRBV14_5	-0.002	0.019
TCRBV14_6	-0.189	-0.020
TCRBV14_7	0.083	-0.062
TCRBV14_8	0.103	-0.023
TCRBV14_9	0.028	0.026
TCRBV14_10	0.080	-0.040
TCRBV14_11	-0.259	0.123
TCRBV14_12	0.148	-0.026
TCRBV14_13	0.008	0.003
TCRBV15_4	0.029	-0.052
TCRBV15_5	-0.116	-0.158
TCRBV15_6	-0.006	-0.061
TCRBV15_7	0.240	0.066
TCRBV15_8	0.057	0.031
TCRBV15_9	0.076	0.015
TCRBV15_10	-0.095	0.189
TCRBV15_11	-0.164	-0.094
TCRBV15_12	-0.053	0.018
TCRBV16_5	0.264	0.038
TCRBV16_6	0.025	0.032
TCRBV16_7	-0.235	0.165
TCRBV16_8	-0.007	-0.071
TCRBV16_9	0.099	0.058
TCRBV16_10	-0.263	-0.097
TCRBV16_11	-0.055	0.105
TCRBV16_12	0.113	-0.166
TCRBV16_13	0.008	0.003
TCRBV18_3	0.010	0.022
TCRBV18_4	-0.061	0.036
TCRBV18_5	-0.064	0.023
TCRBV18_6	0.039	-0.065
TCRBV18_7	0.121	-0.108
TCRBV18_8	0.036	-0.001
TCRBV18_9	-0.230	-0.031
TCRBV18_10	-0.010	-0.013
TCRBV18_11	0.078	0.235
TCRBV18_12	0.007	0.001
TCRBV18_13	0.031	0.006
TCRBV20_5	0.092	0.080
TCRBV20_6	-0.210	0.024
TCRBV20_7	-0.208	-0.132
TCRBV20_8	0.075	0.200
TCRBV20_9	0.136	0.064
TCRBV20_10	-0.026	0.105
TCRBV20_11	-0.060	0.007
TCRBV20_12	0.170	-0.154
TCRBV20_13	-0.025	-0.197

FIG. 107A

TCRBV20_14 0.023 -0.042

Variance Explained by Components

1	2	3	4	5
806.097	574.767	525.021	474.758	360.278
6	7	8	9	10
326.711	312.488	234.426	220.247	205.757
11	12	13	14	15
197.164	187.097	166.789	160.829	147.404
16	17	18	19	20
130.104	128.438	120.749	108.967	98.134
21	22	23	24	25
90.690	78.013	76.711	61.271	59.256
26	27	28	29	30
50.362	48.663	39.763	37.130	32.355
31	32	33	34	35
29.161	26.169	24.054	21.550	20.080
36	37	38	39	40
18.509	17.875	15.007	13.936	12.903
41	42	43	44	45
11.317	9.508	8.822	8.187	7.641
46	47	48	49	50
6.640	5.734	4.707	4.103	3.624
51	52			
3.345	2.374			

Percent of Total Variance Explained

1	2	3	4	5
12.723	9.072	8.287	7.493	5.686
6	7	8	9	10
5.157	4.932	3.700	3.476	3.248
11	12	13	14	15
3.112	2.953	2.633	2.538	2.327
16	17	18	19	20

FIG. 107B

2.054	2.027	1.906	1.720	1.549
21	22	23	24	25
1.431	1.231	1.211	0.967	0.935
26	27	28	29	30
0.795	0.768	0.628	0.586	0.511
31	32	33	34	35
0.460	0.413	0.380	0.340	0.317
36	37	38	39	40
0.292	0.282	0.237	0.220	0.204
41	42	43	44	45
0.179	0.150	0.139	0.129	0.121
46	47	48	49	50
0.105	0.090	0.074	0.065	0.057
51	52			
0.053	0.037			

Scree Plot

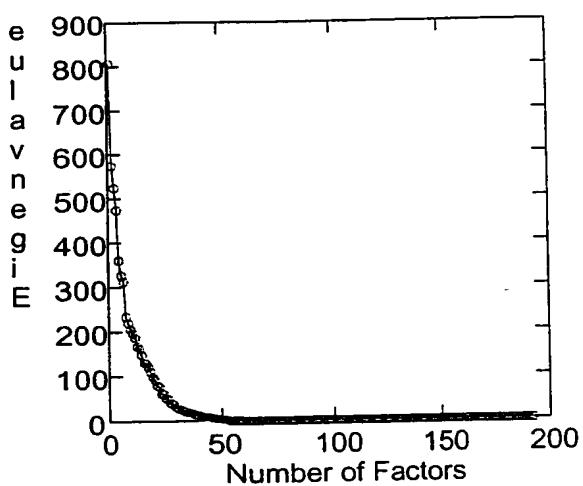


FIG. 107C

Coefficients for Standardized Factor Scores

	1	2	3	4	5
TCRBV01_6	-0.000	-0.000	-0.000	0.000	0.000
TCRBV01_7	0.001	0.001	-0.000	0.000	0.007
TCRBV01_8	-0.003	-0.002	0.008	-0.010	0.006
TCRBV01_9	0.001	0.004	0.003	0.006	0.006
TCRBV01_10	0.004	0.004	0.004	0.003	0.003
TCRBV01_11	0.000	0.005	-0.001	0.003	-0.000
TCRBV01_12	-0.000	0.002	-0.002	0.000	0.001
TCRBV01_13	-0.000	0.000	-0.001	0.000	-0.000
TCRBV01_14	-0.000	0.000	-0.000	0.000	-0.000
TCRBV02_6	0.001	-0.000	-0.001	-0.000	-0.003
TCRBV02_7	0.001	0.001	0.001	-0.000	0.002
TCRBV02_8	0.000	0.001	0.000	0.000	-0.004
TCRBV02_9	0.001	0.000	0.000	0.000	-0.002
TCRBV02_10	-0.000	-0.000	0.001	-0.002	0.002
TCRBV02_11	-0.001	-0.000	0.003	-0.000	0.001
TCRBV02_12	-0.001	-0.000	0.001	-0.000	0.000
TCRBV02_13	-0.000	-0.000	0.000	-0.001	0.001
TCRBV03_4	-0.000	-0.000	-0.000	0.000	0.000
TCRBV03_5	-0.000	-0.000	-0.000	-0.000	0.000
TCRBV03_6	0.003	0.000	-0.001	-0.002	0.000
TCRBV03_7	0.003	0.003	-0.001	-0.002	0.002
TCRBV03_8	0.004	0.004	-0.000	-0.002	0.004
TCRBV03_9	0.005	0.005	-0.003	-0.000	0.005
TCRBV03_10	-0.004	0.001	0.007	-0.002	0.014
TCRBV03_11	-0.006	0.002	0.003	0.004	0.002
TCRBV03_12	-0.001	0.000	0.003	0.002	-0.004
TCRBV03_13	-0.001	-0.001	0.005	0.005	-0.006
TCRBV04_6	0.000	-0.000	-0.000	-0.001	0.000
TCRBV04_7	0.001	-0.000	-0.000	-0.001	0.000
TCRBV04_8	0.002	0.000	0.001	-0.003	0.000
TCRBV04_9	0.006	-0.002	0.001	-0.001	0.003
TCRBV04_10	0.006	-0.001	-0.001	-0.003	-0.002
TCRBV04_11	-0.003	0.001	-0.003	0.003	0.004
TCRBV04_12	-0.005	0.002	-0.001	0.005	-0.007
TCRBV04_13	-0.004	0.003	0.001	-0.005	0.001
TCRBV04_14	-0.004	-0.002	0.003	-0.000	-0.000
TCRBV04_15	-0.000	0.000	0.000	-0.000	0.000
TCRBV051_5	0.000	0.000	0.000	0.000	0.002
TCRBV051_6	0.000	-0.000	0.000	-0.002	0.003
TCRBV051_7	-0.000	-0.001	-0.001	-0.002	0.001
TCRBV051_8	0.007	-0.020	0.014	0.014	0.001
TCRBV051_9	0.000	0.002	-0.003	0.006	-0.005
TCRBV051_10	-0.001	0.009	-0.007	-0.004	-0.004
TCRBV051_11	-0.002	0.005	0.004	-0.013	-0.003
TCRBV051_12	-0.001	0.006	-0.001	-0.002	-0.002
TCRBV051_13	0.000	0.000	-0.000	-0.000	-0.000
TCRBV052_6	0.000	0.001	-0.001	-0.001	-0.000
TCRBV052_7	0.001	0.005	0.000	0.001	-0.002
TCRBV052_8	-0.004	0.010	0.012	0.007	-0.010
TCRBV052_9	0.002	-0.002	0.002	-0.001	0.000
TCRBV052_10	0.002	-0.004	-0.005	-0.002	-0.001
TCRBV052_11	0.001	-0.005	-0.001	-0.004	0.004
TCRBV052_12	0.000	-0.004	-0.002	-0.001	0.000
TCRBV052_13	0.000	-0.001	-0.000	-0.000	-0.001
TCRBV06_5	0.000	0.000	-0.000	-0.000	-0.000
TCRBV06_6	0.001	0.001	-0.001	0.000	0.001
TCRBV06_7	0.003	0.002	0.001	0.000	-0.000
TCRBV06_8	0.003	0.003	0.004	0.001	0.001

FIG. 108A

TCRBV06_9	0.004	0.002	0.005	-0.007	0.006
TCRBV06_10	-0.003	0.004	-0.000	0.002	0.005
TCRBV06_11	-0.004	0.002	0.002	0.004	0.002
TCRBV06_12	-0.002	-0.001	-0.000	0.002	0.002
TCRBV06_13	-0.000	-0.000	-0.000	0.000	0.001
TCRBV07_5	0.000	0.000	-0.000	-0.000	-0.000
TCRBV07_6	0.001	0.000	0.004	0.003	-0.003
TCRBV07_7	0.002	-0.001	0.006	-0.002	-0.002
TCRBV07_8	0.002	0.004	0.001	0.001	0.004
TCRBV07_9	0.006	0.004	0.005	-0.002	0.003
TCRBV07_10	-0.001	0.004	-0.001	0.002	0.008
TCRBV07_11	-0.004	0.001	-0.001	0.000	0.005
TCRBV07_12	-0.002	0.001	-0.001	0.001	0.001
TCRBV07_13	-0.000	-0.000	-0.000	-0.000	0.000
TCRBV081_5	-0.000	-0.000	0.000	0.000	0.000
TCRBV081_6	-0.000	0.001	-0.000	-0.001	0.002
TCRBV081_7	0.001	-0.001	0.000	-0.002	0.006
TCRBV081_8	0.001	-0.000	0.002	0.000	0.002
TCRBV081_9	0.005	-0.008	-0.001	-0.003	-0.004
TCRBV081_10	-0.002	0.002	-0.003	0.005	-0.003
TCRBV081_11	-0.003	0.004	0.001	0.001	-0.003
TCRBV081_12	-0.001	0.002	0.000	-0.001	-0.002
TCRBV082_4	0.001	-0.001	-0.000	-0.002	-0.001
TCRBV082_5	0.002	-0.002	-0.001	-0.005	-0.002
TCRBV082_6	0.002	-0.001	0.000	-0.004	-0.002
TCRBV082_7	0.005	-0.004	0.003	-0.008	-0.008
TCRBV082_8	-0.002	0.002	-0.000	0.004	-0.001
TCRBV082_9	-0.004	0.004	-0.001	0.007	0.008
TCRBV082_10	-0.003	0.001	-0.001	0.006	0.004
TCRBV082_11	-0.001	0.000	0.000	0.002	0.002
TCRBV083_4	-0.000	-0.000	0.000	0.000	-0.000
TCRBV083_5	-0.000	0.000	0.000	-0.000	-0.000
TCRBV083_6	0.001	-0.000	-0.002	-0.001	-0.002
TCRBV083_7	-0.000	-0.001	0.002	-0.001	0.004
TCRBV083_8	0.000	0.002	0.000	-0.002	0.003
TCRBV083_9	0.001	0.000	-0.002	0.000	0.001
TCRBV083_10	-0.001	0.001	-0.000	0.002	-0.000
TCRBV083_11	-0.001	-0.000	0.003	0.002	-0.004
TCRBV083_12	-0.000	-0.001	-0.001	0.001	-0.003
TCRBV09_5	-0.000	-0.000	0.000	0.000	0.000
TCRBV09_6	0.000	-0.000	-0.001	0.000	0.001
TCRBV09_7	0.001	-0.001	-0.000	-0.001	0.006
TCRBV09_8	0.000	-0.002	0.005	0.010	0.012
TCRBV09_9	0.003	-0.001	0.008	0.006	0.008
TCRBV09_10	0.003	0.006	0.001	-0.004	0.010
TCRBV09_11	-0.002	0.005	0.013	-0.008	-0.014
TCRBV09_12	-0.000	0.006	-0.001	-0.003	-0.003
TCRBV09_13	0.000	0.001	-0.000	-0.001	-0.001
TCRBV09_14	0.000	0.000	-0.000	-0.000	-0.000
TCRBV09_15	0.000	-0.000	0.000	-0.000	-0.000
TCRBV10_6	0.001	0.001	-0.000	-0.001	-0.001
TCRBV10_7	0.001	0.003	0.002	0.002	-0.005
TCRBV10_8	0.002	0.003	-0.000	0.001	-0.000
TCRBV10_9	-0.005	-0.003	0.001	-0.004	0.001
TCRBV10_10	-0.001	-0.003	0.000	0.001	0.003
TCRBV10_11	0.002	-0.001	-0.002	0.001	0.001
TCRBV10_12	0.000	-0.000	-0.001	0.000	0.001
TCRBV10_13	-0.000	-0.000	-0.000	0.000	0.000
TCRBV11_5	0.000	-0.000	-0.000	0.000	0.001
TCRBV11_6	0.001	0.001	0.000	-0.002	0.001
TCRBV11_7	0.001	0.002	0.002	0.000	-0.001
TCRBV11_8	0.001	0.003	0.004	-0.003	-0.000
TCRBV11_9	0.004	0.003	0.011	-0.002	0.003
TCRBV11_10	-0.000	0.003	0.000	0.004	0.005

TCRBV11_11	-0.002	0.002	-0.003	0.001	0.004
TCRBV11_12	-0.001	0.000	-0.002	0.003	0.002
TCRBV11_13	-0.001	-0.000	-0.001	0.000	0.001
TCRBV11_14	-0.000	-0.000	-0.000	0.000	0.000
TCRBV11_15	-0.000	-0.000	-0.000	0.000	0.000
TCRBV12_4	-0.000	0.000	0.000	0.000	-0.001
TCRBV12_5	0.002	0.001	0.006	0.001	-0.008
TCRBV12_6	0.003	0.002	0.002	-0.004	0.003
TCRBV12_7	0.005	0.001	0.000	-0.005	0.005
TCRBV12_8	0.002	-0.001	-0.006	-0.002	0.002
TCRBV12_9	-0.005	-0.002	-0.005	0.005	-0.001
TCRBV12_10	-0.002	-0.001	0.003	0.003	-0.001
TCRBV12_11	-0.004	-0.000	0.000	0.001	0.001
TCRBV12_12	-0.001	-0.000	0.000	0.000	0.000
TCRBV13_5	-0.000	-0.000	-0.000	0.000	-0.002
TCRBV13_6	0.000	0.001	0.000	-0.003	-0.002
TCRBV13_7	0.002	-0.001	-0.003	-0.002	0.007
TCRBV13_8	0.001	-0.000	-0.002	0.000	0.003
TCRBV13_9	0.000	0.000	0.009	0.010	-0.012
TCRBV13_10	-0.003	0.001	-0.002	-0.003	0.004
TCRBV13_11	-0.001	-0.001	-0.001	-0.003	-0.002
TCRBV13_12	-0.000	-0.000	-0.001	0.000	0.000
TCRBV13_13	0.000	-0.000	-0.000	0.000	-0.001
TCRBV14_5	0.000	0.000	0.000	-0.000	-0.001
TCRBV14_6	0.001	-0.000	-0.002	-0.002	-0.002
TCRBV14_7	-0.001	0.000	0.000	-0.000	-0.001
TCRBV14_8	0.003	-0.001	-0.001	0.007	0.001
TCRBV14_9	0.001	-0.001	-0.002	-0.004	0.002
TCRBV14_10	-0.002	0.000	0.002	-0.001	-0.000
TCRBV14_11	-0.002	0.001	0.002	0.000	0.000
TCRBV14_12	-0.000	0.000	-0.000	0.000	0.000
TCRBV14_13	-0.000	-0.000	-0.000	0.000	0.000
TCRBV15_4	-0.000	0.000	-0.000	0.000	0.004
TCRBV15_5	0.001	-0.002	-0.001	-0.001	0.003
TCRBV15_6	0.002	0.000	0.001	0.000	0.004
TCRBV15_7	0.004	0.003	0.003	0.000	0.004
TCRBV15_8	0.006	0.004	0.005	0.001	0.004
TCRBV15_9	-0.002	0.006	0.007	0.002	-0.000
TCRBV15_10	-0.004	0.003	-0.003	0.001	0.002
TCRBV15_11	-0.003	0.001	-0.002	0.000	-0.000
TCRBV15_12	-0.001	0.000	0.000	-0.000	-0.000
TCRBV16_5	-0.000	0.000	0.000	0.000	-0.001
TCRBV16_6	0.001	-0.001	0.001	0.002	0.001
TCRBV16_7	0.005	0.001	0.002	0.001	-0.003
TCRBV16_8	0.007	0.006	-0.002	0.001	-0.005
TCRBV16_9	0.009	0.010	-0.004	0.004	-0.005
TCRBV16_10	0.000	0.006	0.001	0.005	-0.003
TCRBV16_11	-0.005	-0.002	0.007	0.002	0.013
TCRBV16_12	-0.010	-0.004	0.011	-0.014	0.004
TCRBV16_13	-0.000	-0.000	0.000	0.000	-0.000
TCRBV18_3	0.000	-0.000	-0.000	-0.000	0.000
TCRBV18_4	0.000	-0.000	0.000	-0.002	0.001
TCRBV18_5	0.000	0.001	0.003	-0.000	-0.002
TCRBV18_6	-0.002	0.003	0.006	-0.002	-0.002
TCRBV18_7	-0.000	0.006	0.004	0.003	0.003
TCRBV18_8	0.002	0.009	-0.002	-0.000	0.009
TCRBV18_9	-0.001	0.003	0.000	0.003	0.010
TCRBV18_10	-0.000	0.002	-0.000	0.003	0.004
TCRBV18_11	-0.001	-0.000	-0.001	0.001	0.003
TCRBV18_12	-0.000	0.000	0.000	-0.000	0.000
TCRBV18_13	0.000	-0.000	-0.000	0.000	0.001
TCRBV20_5	0.000	-0.000	0.000	0.000	-0.001
TCRBV20_6	0.001	-0.000	0.001	0.000	-0.000
TCRBV20_7	0.002	0.001	0.001	0.001	-0.000

TCRBV20_8	0.004	0.002	0.002	-0.001	0.001
TCRBV20_9	0.004	0.004	0.004	0.004	0.005
TCRBV20_10	-0.001	0.006	0.003	-0.004	0.000
TCRBV20_11	-0.005	0.003	0.003	0.000	0.001
TCRBV20_12	-0.002	0.001	-0.001	0.001	0.001
TCRBV20_13	-0.000	-0.003	-0.002	0.001	0.008
TCRBV20_14	-0.000	0.000	-0.000	0.000	0.000
	6	7	8	9	10
TCRBV01_6	0.000	-0.000	-0.000	-0.000	-0.000
TCRBV01_7	-0.002	0.000	0.000	0.001	0.001
TCRBV01_8	0.002	-0.008	0.002	0.011	-0.002
TCRBV01_9	0.000	0.003	-0.003	0.010	0.001
TCRBV01_10	-0.000	0.005	-0.002	-0.008	-0.000
TCRBV01_11	0.007	0.003	0.002	-0.008	0.006
TCRBV01_12	0.002	0.001	-0.002	-0.002	0.003
TCRBV01_13	0.001	-0.001	0.001	-0.001	0.001
TCRBV01_14	0.000	-0.000	0.000	-0.000	-0.000
TCRBV02_6	-0.001	-0.002	-0.001	0.002	0.001
TCRBV02_7	-0.001	-0.001	0.002	0.002	-0.003
TCRBV02_8	-0.004	-0.001	-0.000	-0.003	0.001
TCRBV02_9	-0.001	0.002	-0.009	0.002	0.000
TCRBV02_10	-0.004	-0.002	-0.003	-0.002	0.001
TCRBV02_11	-0.000	0.000	0.002	0.001	-0.000
TCRBV02_12	0.001	0.001	-0.000	0.000	-0.003
TCRBV02_13	0.000	-0.000	0.001	0.001	0.000
TCRBV03_4	0.000	0.000	0.000	-0.000	0.000
TCRBV03_5	0.000	0.000	0.000	-0.000	-0.000
TCRBV03_6	-0.000	0.003	-0.001	0.004	-0.003
TCRBV03_7	0.000	0.004	-0.003	0.002	-0.002
TCRBV03_8	0.000	0.004	-0.005	0.012	-0.001
TCRBV03_9	0.002	0.005	-0.007	0.007	0.000
TCRBV03_10	0.008	-0.009	0.005	-0.000	-0.000
TCRBV03_11	0.005	-0.005	-0.010	-0.008	0.010
TCRBV03_12	0.001	0.000	0.006	-0.008	0.001
TCRBV03_13	-0.005	-0.000	0.014	-0.005	0.004
TCRBV04_6	0.000	0.000	0.000	0.000	0.000
TCRBV04_7	-0.001	0.001	-0.000	0.001	0.005
TCRBV04_8	0.001	0.002	-0.003	-0.000	0.006
TCRBV04_9	-0.000	0.004	-0.001	-0.007	0.008
TCRBV04_10	-0.002	0.003	-0.003	-0.005	0.001
TCRBV04_11	0.000	-0.003	0.004	-0.004	-0.008
TCRBV04_12	0.000	0.000	0.004	0.000	-0.011
TCRBV04_13	0.000	-0.002	-0.001	0.014	-0.001
TCRBV04_14	0.002	-0.005	0.001	0.000	0.001
TCRBV04_15	-0.000	-0.000	0.001	0.001	-0.001
TCRBV051_5	-0.000	0.000	0.001	-0.001	0.001
TCRBV051_6	0.000	0.001	0.001	-0.001	0.005
TCRBV051_7	-0.000	-0.001	0.001	0.002	-0.004
TCRBV051_8	0.008	-0.007	-0.009	0.000	-0.004
TCRBV051_9	0.014	-0.005	-0.001	0.012	-0.002
TCRBV051_10	-0.003	-0.000	0.004	0.006	-0.008
TCRBV051_11	-0.003	0.002	0.011	-0.006	-0.001
TCRBV051_12	-0.003	0.001	-0.001	0.000	-0.007
TCRBV051_13	-0.000	0.000	0.000	-0.000	0.000
TCRBV052_6	-0.001	-0.000	0.001	0.000	-0.001
TCRBV052_7	-0.005	-0.005	-0.003	0.003	-0.000
TCRBV052_8	-0.013	-0.002	-0.014	0.002	0.002
TCRBV052_9	0.006	-0.008	-0.004	0.014	-0.027
TCRBV052_10	0.006	-0.003	0.009	0.002	0.003
TCRBV052_11	0.011	0.007	0.013	-0.007	0.006
TCRBV052_12	0.006	0.004	0.005	0.000	0.003

FIG. 109A

TCRBV052_13	0.001	0.001	-0.000	0.000	-0.000
TCRBV06_5	-0.000	0.000	-0.000	-0.000	0.000
TCRBV06_6	-0.000	-0.002	0.001	0.001	-0.000
TCRBV06_7	-0.000	-0.002	0.003	0.004	-0.004
TCRBV06_8	-0.003	0.000	0.008	-0.004	0.000
TCRBV06_9	0.009	-0.009	0.007	-0.007	-0.003
TCRBV06_10	0.007	0.005	-0.007	-0.003	0.008
TCRBV06_11	-0.001	0.006	-0.007	0.007	0.005
TCRBV06_12	-0.000	0.004	-0.006	0.006	0.003
TCRBV06_13	-0.000	0.000	-0.001	0.000	0.000
TCRBV07_5	-0.000	-0.000	0.000	0.000	-0.000
TCRBV07_6	-0.003	-0.001	0.008	-0.004	0.005
TCRBV07_7	0.009	0.002	-0.002	-0.005	0.001
TCRBV07_8	-0.005	-0.001	-0.005	0.009	0.007
TCRBV07_9	0.001	-0.007	-0.000	0.002	-0.007
TCRBV07_10	0.006	0.004	-0.005	-0.004	0.001
TCRBV07_11	0.004	0.001	0.004	0.004	0.000
TCRBV07_12	0.000	0.003	-0.001	0.001	0.001
TCRBV07_13	-0.001	0.001	0.000	-0.000	-0.000
TCRBV081_5	-0.000	0.000	0.000	-0.001	0.000
TCRBV081_6	-0.001	0.002	0.005	-0.002	0.001
TCRBV081_7	-0.003	0.009	0.005	-0.004	-0.003
TCRBV081_8	-0.003	0.009	0.003	-0.002	-0.004
TCRBV081_9	-0.009	0.000	-0.005	-0.000	-0.002
TCRBV081_10	0.012	-0.016	-0.002	0.001	0.001
TCRBV081_11	0.005	-0.004	-0.003	0.004	0.005
TCRBV081_12	-0.000	-0.001	-0.003	0.003	0.001
TCRBV082_4	0.000	-0.000	0.000	-0.000	0.003
TCRBV082_5	-0.001	-0.001	-0.002	0.001	0.008
TCRBV082_6	-0.000	-0.001	-0.002	0.002	0.005
TCRBV082_7	0.001	-0.002	-0.002	-0.001	0.013
TCRBV082_8	0.002	-0.002	-0.001	0.001	-0.008
TCRBV082_9	0.001	0.002	0.003	-0.003	-0.011
TCRBV082_10	-0.002	0.001	0.003	0.000	-0.009
TCRBV082_11	-0.000	0.002	0.001	0.000	-0.002
TCRBV083_4	-0.000	0.000	0.001	-0.000	0.000
TCRBV083_5	-0.000	-0.000	-0.000	0.002	0.001
TCRBV083_6	0.001	-0.000	0.001	0.001	-0.000
TCRBV083_7	0.003	0.001	0.005	-0.006	-0.001
TCRBV083_8	0.001	-0.002	-0.004	-0.002	-0.002
TCRBV083_9	-0.003	-0.001	0.002	0.001	-0.005
TCRBV083_10	-0.004	-0.002	-0.000	0.002	0.004
TCRBV083_11	0.002	0.003	-0.001	0.001	0.002
TCRBV083_12	0.001	0.000	-0.003	0.003	0.001
TCRBV09_5	-0.000	0.000	-0.000	-0.001	-0.001
TCRBV09_6	0.000	0.000	0.001	0.001	0.003
TCRBV09_7	-0.001	-0.003	-0.003	0.002	0.007
TCRBV09_8	-0.004	0.002	-0.000	0.010	0.012
TCRBV09_9	-0.004	-0.004	0.003	0.001	0.009
TCRBV09_10	-0.011	0.002	-0.008	-0.001	-0.003
TCRBV09_11	0.007	0.016	-0.011	-0.004	-0.007
TCRBV09_12	-0.002	-0.000	0.001	0.009	-0.011
TCRBV09_13	-0.001	-0.000	0.000	0.002	-0.002
TCRBV09_14	-0.000	-0.000	-0.000	0.000	-0.000
TCRBV09_15	-0.000	-0.000	-0.000	0.000	0.000
TCRBV10_6	-0.000	-0.000	0.001	-0.002	-0.002
TCRBV10_7	-0.003	-0.002	-0.000	-0.000	-0.004
TCRBV10_8	-0.006	-0.006	0.001	0.001	-0.006
TCRBV10_9	-0.010	-0.009	-0.015	-0.015	-0.001
TCRBV10_10	0.003	0.004	0.004	0.007	0.000
TCRBV10_11	0.012	0.010	0.005	0.004	0.007
TCRBV10_12	0.004	0.004	0.003	0.004	0.005
TCRBV10_13	0.000	0.000	0.000	-0.000	0.000
TCRBV11_5	-0.000	-0.000	-0.001	0.000	-0.001

FIG. 109B

TCRBV11_6	-0.001	-0.003	-0.001	0.002	0.002
TCRBV11_7	-0.002	-0.002	-0.001	0.001	0.001
TCRBV11_8	0.001	-0.006	-0.001	0.008	0.004
TCRBV11_9	0.004	0.003	0.003	-0.006	-0.006
TCRBV11_10	0.002	0.002	0.005	0.002	0.004
TCRBV11_11	0.003	0.002	0.004	-0.003	0.002
TCRBV11_12	0.003	0.005	0.001	-0.001	0.001
TCRBV11_13	0.000	0.002	0.001	-0.001	0.001
TCRBV11_14	0.001	0.000	0.000	-0.000	0.000
TCRBV11_15	0.000	0.000	0.000	-0.000	0.000
TCRBV12_4	-0.000	0.000	-0.000	0.001	-0.000
TCRBV12_5	-0.005	0.002	0.015	-0.000	0.006
TCRBV12_6	-0.002	0.005	0.002	0.001	0.003
TCRBV12_7	-0.003	0.003	0.002	0.011	-0.000
TCRBV12_8	-0.000	0.001	-0.000	0.008	0.003
TCRBV12_9	-0.000	-0.011	-0.002	-0.004	0.003
TCRBV12_10	0.007	0.006	-0.011	-0.020	-0.018
TCRBV12_11	0.003	-0.005	-0.003	0.001	0.004
TCRBV12_12	0.001	-0.001	-0.002	0.000	0.000
TCRBV13_5	0.000	0.000	0.000	0.000	0.000
TCRBV13_6	0.007	0.005	-0.005	-0.000	-0.002
TCRBV13_7	0.003	-0.005	-0.004	0.003	-0.005
TCRBV13_8	-0.009	-0.003	0.003	0.000	0.001
TCRBV13_9	-0.005	0.003	0.010	0.005	0.001
TCRBV13_10	0.001	-0.001	-0.008	-0.005	0.002
TCRBV13_11	0.001	0.002	0.003	-0.004	0.003
TCRBV13_12	0.001	0.000	0.000	0.000	0.001
TCRBV13_13	-0.000	-0.000	-0.000	0.000	-0.000
TCRBV14_5	0.000	0.000	0.000	-0.001	0.000
TCRBV14_6	-0.000	-0.001	0.001	-0.002	-0.000
TCRBV14_7	0.001	-0.001	-0.006	-0.000	0.006
TCRBV14_8	0.002	0.001	-0.004	-0.002	-0.001
TCRBV14_9	-0.003	-0.002	0.004	0.009	-0.001
TCRBV14_10	-0.000	0.001	0.004	-0.000	0.002
TCRBV14_11	0.000	0.001	0.001	-0.002	-0.007
TCRBV14_12	-0.000	0.001	0.000	-0.001	0.001
TCRBV14_13	-0.000	0.000	0.000	-0.000	0.000
TCRBV15_4	0.000	0.000	0.000	0.000	0.001
TCRBV15_5	-0.000	0.003	-0.004	0.004	-0.010
TCRBV15_6	-0.002	0.000	0.003	0.001	0.001
TCRBV15_7	-0.002	-0.001	0.007	0.002	-0.000
TCRBV15_8	0.002	-0.001	0.002	0.009	0.002
TCRBV15_9	0.007	0.002	-0.004	-0.006	0.001
TCRBV15_10	0.004	0.000	-0.003	-0.003	0.010
TCRBV15_11	0.002	-0.001	-0.001	-0.002	0.003
TCRBV15_12	0.000	-0.000	-0.002	-0.000	0.002
TCRBV16_5	-0.000	-0.000	0.002	-0.000	-0.000
TCRBV16_6	-0.004	-0.000	0.004	-0.000	-0.001
TCRBV16_7	-0.003	-0.007	-0.001	-0.012	-0.006
TCRBV16_8	0.003	-0.007	-0.001	0.000	0.003
TCRBV16_9	0.018	-0.007	-0.003	0.001	0.000
TCRBV16_10	0.005	0.014	0.004	0.007	0.009
TCRBV16_11	0.001	0.011	0.007	0.004	-0.019
TCRBV16_12	0.003	-0.007	-0.004	0.017	0.008
TCRBV16_13	-0.000	0.000	-0.000	0.001	-0.000
TCRBV18_3	0.000	-0.000	0.000	0.000	0.000
TCRBV18_4	0.001	-0.000	0.004	0.003	-0.002
TCRBV18_5	0.000	-0.001	0.008	0.003	-0.000
TCRBV18_6	0.003	-0.009	0.012	0.001	-0.001
TCRBV18_7	-0.003	-0.008	0.021	-0.011	-0.004
TCRBV18_8	0.001	-0.012	-0.003	-0.015	0.005
TCRBV18_9	-0.005	0.002	-0.008	-0.008	0.012
TCRBV18_10	-0.002	0.000	-0.005	0.003	0.004
TCRBV18_11	-0.002	0.002	-0.002	0.001	0.000

TCRBV18_12	0.000	0.000	-0.000	0.001	0.000
TCRBV18_13	0.000	0.000	0.000	-0.000	0.000
TCRBV20_5	0.000	0.000	-0.000	-0.001	-0.001
TCRBV20_6	-0.000	-0.002	-0.003	-0.002	-0.001
TCRBV20_7	0.002	-0.003	0.002	0.002	-0.000
TCRBV20_8	0.005	0.001	-0.003	0.000	-0.007
TCRBV20_9	-0.004	-0.005	-0.000	-0.001	0.007
TCRBV20_10	0.003	0.002	0.000	0.004	0.009
TCRBV20_11	0.006	0.001	0.004	-0.000	0.007
TCRBV20_12	0.002	0.003	0.001	-0.003	0.002
TCRBV20_13	-0.002	0.004	-0.003	0.003	-0.007
TCRBV20_14	0.000	0.000	0.000	0.000	0.000
	11	12	13	14	15
TCRBV01_6	-0.000	0.001	0.000	-0.000	0.001
TCRBV01_7	-0.003	0.001	0.002	0.002	-0.000
TCRBV01_8	-0.007	0.002	0.004	-0.001	-0.012
TCRBV01_9	0.001	-0.003	-0.016	-0.001	-0.007
TCRBV01_10	-0.005	0.005	0.024	-0.006	-0.001
TCRBV01_11	0.004	0.004	-0.004	0.011	0.008
TCRBV01_12	0.006	0.003	0.003	0.005	0.003
TCRBV01_13	0.000	0.000	0.000	0.001	0.001
TCRBV01_14	-0.000	0.000	0.000	-0.000	0.000
TCRBV02_6	0.001	-0.001	-0.001	0.000	-0.002
TCRBV02_7	0.001	-0.005	0.001	0.001	0.004
TCRBV02_8	-0.006	-0.001	-0.005	0.002	0.002
TCRBV02_9	-0.006	0.002	-0.004	0.001	-0.003
TCRBV02_10	-0.002	-0.000	-0.001	0.006	0.002
TCRBV02_11	0.003	-0.006	0.001	0.004	0.005
TCRBV02_12	0.001	-0.001	-0.002	0.003	0.003
TCRBV02_13	-0.000	0.000	0.001	-0.000	-0.001
TCRBV03_4	0.000	0.000	0.000	-0.000	-0.000
TCRBV03_5	0.000	0.001	0.000	-0.000	-0.000
TCRBV03_6	-0.001	0.004	0.004	0.000	-0.000
TCRBV03_7	0.003	0.005	0.003	-0.001	0.007
TCRBV03_8	-0.002	0.012	0.002	-0.010	0.009
TCRBV03_9	-0.004	0.012	0.005	0.000	-0.001
TCRBV03_10	0.000	-0.007	-0.001	-0.011	-0.006
TCRBV03_11	0.010	-0.009	-0.004	0.015	-0.007
TCRBV03_12	0.000	-0.001	-0.002	0.008	-0.002
TCRBV03_13	-0.012	-0.004	0.007	0.011	-0.005
TCRBV04_6	0.000	0.000	0.000	0.000	0.000
TCRBV04_7	0.001	-0.000	-0.001	0.001	0.002
TCRBV04_8	-0.001	-0.001	-0.003	0.004	0.001
TCRBV04_9	-0.006	-0.005	-0.007	0.002	0.009
TCRBV04_10	-0.002	-0.000	0.003	0.007	-0.002
TCRBV04_11	0.007	0.004	0.003	0.008	-0.004
TCRBV04_12	0.005	0.003	0.003	0.003	-0.005
TCRBV04_13	-0.002	0.002	0.009	-0.021	0.009
TCRBV04_14	-0.002	-0.004	-0.005	-0.003	-0.010
TCRBV04_15	0.001	0.001	-0.001	-0.000	-0.000
TCRBV051_5	0.000	0.000	-0.001	0.000	-0.000
TCRBV051_6	0.005	0.002	-0.001	0.001	-0.002
TCRBV051_7	0.001	-0.006	-0.002	0.005	0.001
TCRBV051_8	0.005	-0.004	0.009	0.000	0.011
TCRBV051_9	0.004	-0.007	0.010	0.010	0.001
TCRBV051_10	0.006	-0.015	-0.002	0.001	-0.004
TCRBV051_11	0.007	0.005	-0.005	0.002	0.011
TCRBV051_12	-0.001	-0.006	-0.002	-0.002	-0.005
TCRBV051_13	-0.000	0.000	-0.001	-0.000	-0.000
TCRBV052_6	-0.000	0.000	-0.002	0.001	-0.001
TCRBV052_7	0.004	-0.003	-0.004	0.006	-0.005

FIG. 109D

TCRBV052_8	0.013	0.001	0.003	0.003	-0.008
TCRBV052_9	-0.006	-0.008	-0.014	0.014	0.012
TCRBV052_10	0.014	-0.010	0.008	0.002	-0.001
TCRBV052_11	0.004	-0.008	0.010	-0.005	0.012
TCRBV052_12	0.000	-0.002	0.005	-0.003	0.004
TCRBV052_13	-0.000	-0.000	-0.001	-0.000	-0.001
TCRBV06_5	0.000	-0.000	-0.000	0.000	0.000
TCRBV06_6	0.004	0.004	-0.003	0.002	0.001
TCRBV06_7	0.002	0.002	-0.002	-0.002	0.003
TCRBV06_8	0.001	-0.002	-0.000	0.002	0.000
TCRBV06_9	-0.003	0.013	-0.003	0.002	-0.010
TCRBV06_10	-0.004	0.002	0.006	0.006	-0.003
TCRBV06_11	-0.003	-0.006	0.006	-0.002	0.003
TCRBV06_12	-0.001	-0.002	0.009	0.004	0.002
TCRBV06_13	-0.001	0.000	0.001	-0.000	-0.002
TCRBV07_5	0.000	-0.000	0.000	0.000	-0.000
TCRBV07_6	-0.000	0.003	-0.001	0.009	-0.003
TCRBV07_7	0.000	0.011	-0.011	0.013	-0.017
TCRBV07_8	0.003	0.003	0.005	0.006	0.001
TCRBV07_9	0.017	-0.006	0.017	0.008	0.008
TCRBV07_10	-0.012	-0.010	0.002	-0.013	0.003
TCRBV07_11	-0.007	0.006	-0.003	-0.008	-0.000
TCRBV07_12	-0.006	0.003	0.004	-0.005	0.001
TCRBV07_13	-0.001	0.001	0.000	-0.000	-0.000
TCRBV081_5	0.001	0.001	-0.000	0.000	-0.000
TCRBV081_6	0.001	-0.000	-0.006	0.004	-0.001
TCRBV081_7	-0.004	-0.003	-0.009	0.003	-0.005
TCRBV081_8	0.002	0.005	-0.005	0.004	-0.007
TCRBV081_9	0.014	-0.013	0.016	-0.011	-0.018
TCRBV081_10	-0.008	0.009	0.001	0.001	0.013
TCRBV081_11	-0.004	0.003	-0.000	0.000	0.012
TCRBV081_12	-0.001	-0.001	0.003	-0.001	0.006
TCRBV082_4	0.002	0.001	-0.002	-0.001	0.000
TCRBV082_5	0.005	0.001	-0.004	0.001	0.003
TCRBV082_6	0.002	0.002	-0.002	0.002	0.001
TCRBV082_7	0.007	0.004	-0.007	-0.000	0.002
TCRBV082_8	-0.005	0.003	0.004	0.002	-0.001
TCRBV082_9	-0.006	-0.006	0.006	-0.002	-0.006
TCRBV082_10	-0.003	-0.002	0.005	-0.001	0.000
TCRBV082_11	-0.001	-0.002	-0.001	-0.001	0.001
TCRBV083_4	-0.001	-0.000	0.000	0.001	-0.000
TCRBV083_5	-0.001	-0.000	0.002	-0.001	0.000
TCRBV083_6	0.001	-0.000	-0.000	0.003	-0.002
TCRBV083_7	-0.005	-0.011	-0.004	-0.004	-0.003
TCRBV083_8	-0.002	-0.005	-0.002	-0.003	0.004
TCRBV083_9	0.003	0.008	0.006	0.006	0.002
TCRBV083_10	0.002	0.005	0.005	0.005	-0.003
TCRBV083_11	0.003	0.005	-0.007	-0.003	0.003
TCRBV083_12	-0.001	-0.002	0.001	-0.004	-0.001
TCRBV09_5	0.001	0.001	-0.000	0.000	-0.001
TCRBV09_6	-0.001	0.001	0.001	0.001	-0.001
TCRBV09_7	-0.003	-0.003	0.002	0.001	-0.001
TCRBV09_8	0.012	0.007	-0.026	-0.001	-0.001
TCRBV09_9	-0.021	-0.014	0.010	0.016	-0.004
TCRBV09_10	0.009	-0.002	0.013	0.013	-0.006
TCRBV09_11	-0.007	-0.002	-0.002	0.011	0.011
TCRBV09_12	0.003	-0.002	0.003	-0.008	-0.001
TCRBV09_13	0.001	0.001	-0.001	-0.002	0.000
TCRBV09_14	0.001	0.001	-0.001	-0.000	0.000
TCRBV09_15	0.000	0.000	-0.000	-0.000	0.000
TCRBV10_6	-0.000	0.002	-0.004	0.005	0.001
TCRBV10_7	-0.005	0.000	-0.002	0.001	-0.001
TCRBV10_8	0.002	0.001	-0.000	0.004	-0.002
TCRBV10_9	-0.010	-0.011	-0.003	0.001	0.008

FIG. 110A

TCRBV10_10	0.008	0.003	0.002	-0.011	0.005
TCRBV10_11	0.004	0.007	0.002	-0.000	-0.012
TCRBV10_12	0.001	-0.001	0.005	-0.000	0.002
TCRBV10_13	0.000	0.000	0.000	-0.000	-0.000
TCRBV11_5	-0.001	-0.000	0.000	0.002	0.001
TCRBV11_6	0.002	-0.002	0.003	0.001	0.002
TCRBV11_7	-0.005	-0.004	-0.003	0.001	-0.004
TCRBV11_8	-0.003	-0.001	-0.003	0.005	-0.002
TCRBV11_9	-0.003	0.000	0.001	-0.013	0.007
TCRBV11_10	0.003	0.006	0.002	0.005	-0.004
TCRBV11_11	-0.000	0.005	0.007	0.005	0.001
TCRBV11_12	0.001	0.004	0.003	0.007	-0.006
TCRBV11_13	0.000	0.003	0.002	-0.001	-0.001
TCRBV11_14	0.001	0.001	0.001	-0.001	-0.000
TCRBV11_15	0.000	0.000	0.000	-0.000	-0.000
TCRBV12_4	-0.000	0.000	-0.000	-0.002	0.001
TCRBV12_5	-0.010	-0.001	-0.000	0.003	0.003
TCRBV12_6	-0.007	-0.009	-0.000	-0.012	0.009
TCRBV12_7	-0.005	-0.006	0.000	0.005	0.001
TCRBV12_8	-0.001	-0.004	0.003	0.005	-0.007
TCRBV12_9	0.005	0.006	-0.003	0.004	0.004
TCRBV12_10	0.014	0.012	0.006	-0.003	-0.009
TCRBV12_11	0.002	0.002	-0.003	-0.000	-0.004
TCRBV12_12	0.001	0.000	-0.002	0.000	0.001
TCRBV13_5	0.000	0.001	0.000	-0.000	-0.001
TCRBV13_6	-0.003	0.001	-0.002	-0.003	-0.016
TCRBV13_7	-0.004	0.008	0.004	0.005	-0.004
TCRBV13_8	-0.005	0.007	0.008	0.009	-0.002
TCRBV13_9	-0.007	0.005	-0.003	-0.014	0.003
TCRBV13_10	0.011	-0.016	-0.005	-0.005	0.012
TCRBV13_11	0.007	-0.003	-0.007	0.007	0.008
TCRBV13_12	0.002	-0.002	0.002	0.002	0.000
TCRBV13_13	0.000	-0.001	0.002	-0.000	-0.001
TCRBV14_5	-0.000	-0.000	-0.002	0.001	0.000
TCRBV14_6	0.000	-0.003	0.001	-0.004	0.000
TCRBV14_7	-0.001	-0.002	-0.001	0.007	0.001
TCRBV14_8	-0.002	0.004	0.006	0.008	-0.007
TCRBV14_9	0.004	-0.003	-0.008	-0.004	0.001
TCRBV14_10	-0.002	-0.005	0.002	-0.005	0.003
TCRBV14_11	0.002	0.006	0.000	0.000	0.001
TCRBV14_12	0.001	0.002	0.001	-0.002	0.001
TCRBV14_13	-0.000	0.001	0.000	-0.001	-0.000
TCRBV15_4	0.000	-0.000	0.001	0.000	0.000
TCRBV15_5	-0.009	0.004	0.001	0.015	0.009
TCRBV15_6	0.000	0.005	0.001	-0.002	-0.004
TCRBV15_7	0.007	-0.002	-0.002	0.005	-0.005
TCRBV15_8	0.009	-0.000	-0.007	-0.004	-0.002
TCRBV15_9	-0.007	-0.012	0.003	-0.013	-0.017
TCRBV15_10	-0.001	0.011	0.010	0.007	0.008
TCRBV15_11	-0.002	0.005	0.005	0.003	0.003
TCRBV15_12	-0.001	0.001	0.001	0.001	0.002
TCRBV16_5	-0.000	0.000	0.000	0.001	-0.001
TCRBV16_6	-0.004	0.001	-0.000	0.010	0.005
TCRBV16_7	0.007	0.003	0.014	-0.008	0.001
TCRBV16_8	-0.001	-0.007	0.003	0.004	-0.009
TCRBV16_9	-0.003	-0.010	-0.013	0.002	-0.009
TCRBV16_10	0.006	-0.009	0.012	0.011	0.012
TCRBV16_11	0.017	-0.005	-0.011	0.007	0.013
TCRBV16_12	0.002	0.010	0.013	0.002	-0.006
TCRBV16_13	-0.000	-0.000	0.001	-0.001	-0.000
TCRBV18_3	0.000	-0.000	0.000	-0.000	0.000
TCRBV18_4	0.002	-0.000	0.002	0.002	0.002
TCRBV18_5	0.003	-0.002	0.003	0.002	0.004
TCRBV18_6	0.006	-0.002	0.007	0.010	0.014

FIG. 110B

TCRBV18_7	-0.004	0.008	0.003	-0.004	-0.001
TCRBV18_8	0.002	-0.001	-0.005	-0.009	0.025
TCRBV18_9	0.004	0.002	-0.009	-0.001	0.005
TCRBV18_10	0.002	-0.002	-0.002	-0.002	0.008
TCRBV18_11	-0.006	0.006	-0.000	-0.001	0.001
TCRBV18_12	-0.000	0.001	0.000	-0.002	0.000
TCRBV18_13	0.000	0.000	-0.000	-0.000	0.000
TCRBV20_5	-0.001	-0.002	-0.000	-0.001	0.001
TCRBV20_6	-0.001	0.000	0.002	0.001	0.001
TCRBV20_7	0.003	0.005	-0.002	-0.000	-0.004
TCRBV20_8	-0.005	0.012	-0.004	-0.001	-0.005
TCRBV20_9	0.004	0.011	-0.000	-0.013	0.001
TCRBV20_10	0.006	0.003	0.009	0.000	0.010
TCRBV20_11	0.000	-0.015	0.000	0.003	-0.016
TCRBV20_12	0.003	-0.005	0.007	0.006	-0.005
TCRBV20_13	-0.015	0.004	0.000	0.016	0.011
TCRBV20_14	0.000	-0.000	0.001	0.000	0.000
	16	17	18	19	20
TCRBV01_6	0.001	-0.001	0.001	0.000	-0.001
TCRBV01_7	-0.000	-0.007	0.006	0.004	-0.005
TCRBV01_8	-0.008	-0.004	0.005	0.005	0.002
TCRBV01_9	0.006	-0.015	0.012	0.014	0.011
TCRBV01_10	0.010	0.019	-0.001	-0.004	-0.003
TCRBV01_11	-0.003	0.004	0.001	-0.008	-0.003
TCRBV01_12	-0.003	-0.000	-0.009	-0.009	0.001
TCRBV01_13	0.001	0.003	-0.003	-0.004	0.002
TCRBV01_14	0.000	0.000	-0.000	-0.000	0.001
TCRBV02_6	0.001	-0.004	0.001	0.001	-0.004
TCRBV02_7	0.001	-0.001	-0.000	-0.004	0.004
TCRBV02_8	0.007	-0.005	0.008	-0.008	0.003
TCRBV02_9	0.007	-0.005	0.001	-0.026	-0.001
TCRBV02_10	0.004	-0.003	0.010	-0.020	0.011
TCRBV02_11	0.004	-0.001	0.001	-0.008	0.007
TCRBV02_12	0.000	-0.001	-0.002	0.001	0.009
TCRBV02_13	-0.001	0.000	-0.001	-0.001	0.000
TCRBV03_4	-0.001	0.000	-0.000	0.002	-0.001
TCRBV03_5	0.000	0.001	-0.000	0.002	-0.001
TCRBV03_6	-0.000	-0.008	0.006	0.002	0.007
TCRBV03_7	-0.002	-0.008	0.000	0.005	0.004
TCRBV03_8	-0.010	-0.005	-0.003	-0.001	-0.002
TCRBV03_9	0.005	0.003	0.010	-0.002	-0.003
TCRBV03_10	0.009	0.006	-0.013	-0.019	-0.006
TCRBV03_11	-0.005	0.005	0.008	0.006	0.008
TCRBV03_12	-0.000	0.005	0.003	-0.013	-0.001
TCRBV03_13	0.006	-0.000	0.001	0.016	0.002
TCRBV04_6	-0.000	-0.000	0.000	0.000	-0.000
TCRBV04_7	0.001	-0.000	-0.002	-0.000	0.007
TCRBV04_8	0.004	0.005	-0.001	0.003	0.007
TCRBV04_9	0.013	-0.005	-0.005	0.008	0.008
TCRBV04_10	0.011	0.014	-0.015	0.005	0.006
TCRBV04_11	-0.007	-0.022	0.003	-0.003	-0.014
TCRBV04_12	0.002	-0.009	0.008	-0.000	-0.012
TCRBV04_13	-0.015	0.007	0.007	-0.010	-0.012
TCRBV04_14	-0.009	0.000	0.002	-0.003	0.010
TCRBV04_15	0.001	-0.000	0.003	-0.000	0.001
TCRBV051_5	0.000	0.001	0.000	0.000	-0.000
TCRBV051_6	-0.001	0.003	-0.002	0.003	-0.004
TCRBV051_7	0.004	0.005	-0.002	0.005	-0.024
TCRBV051_8	-0.005	-0.014	-0.009	0.002	0.001
TCRBV051_9	0.004	0.021	-0.012	0.003	0.006
TCRBV051_10	0.011	0.002	-0.005	0.014	0.006

FIG. 110C

TCRBV051_11	0.001	-0.013	-0.014	-0.004	0.006
TCRBV051_12	-0.002	-0.003	0.004	0.004	0.011
TCRBV051_13	0.001	0.000	0.001	0.000	0.001
TCRBV052_6	-0.000	-0.001	0.000	0.003	-0.004
TCRBV052_7	0.004	0.004	0.004	0.003	-0.012
TCRBV052_8	0.010	0.002	-0.029	0.013	0.016
TCRBV052_9	0.003	0.021	-0.007	-0.006	-0.017
TCRBV052_10	0.003	0.002	0.002	0.009	0.005
TCRBV052_11	-0.001	-0.021	-0.007	0.004	0.010
TCRBV052_12	-0.006	-0.005	-0.002	0.001	0.007
TCRBV052_13	0.000	-0.001	0.000	0.001	-0.001
TCRBV06_5	0.000	0.000	-0.000	0.000	0.000
TCRBV06_6	0.002	-0.003	-0.002	0.001	0.003
TCRBV06_7	-0.001	-0.002	0.001	0.001	-0.002
TCRBV06_8	0.008	-0.008	0.004	0.019	0.002
TCRBV06_9	0.001	0.005	-0.011	-0.000	0.002
TCRBV06_10	0.006	0.001	-0.000	-0.003	-0.005
TCRBV06_11	-0.012	0.005	0.017	-0.008	-0.000
TCRBV06_12	-0.002	0.004	0.001	-0.009	0.007
TCRBV06_13	0.001	-0.003	0.002	-0.003	-0.002
TCRBV07_5	0.000	-0.000	0.000	0.000	-0.000
TCRBV07_6	-0.002	0.002	-0.003	0.001	-0.004
TCRBV07_7	-0.005	-0.000	-0.009	-0.005	-0.012
TCRBV07_8	-0.005	0.005	0.000	-0.003	-0.008
TCRBV07_9	-0.016	0.006	0.013	0.007	0.007
TCRBV07_10	0.017	-0.003	0.001	0.002	-0.000
TCRBV07_11	0.004	-0.009	0.006	-0.003	0.016
TCRBV07_12	0.009	-0.001	0.001	-0.001	0.008
TCRBV07_13	0.001	-0.000	0.001	-0.000	-0.000
TCRBV081_5	0.000	0.001	-0.001	0.000	0.000
TCRBV081_6	-0.004	0.003	0.002	0.000	-0.004
TCRBV081_7	-0.004	0.006	-0.000	0.005	-0.007
TCRBV081_8	-0.014	0.001	-0.005	0.001	-0.008
TCRBV081_9	0.001	0.004	0.006	-0.012	0.009
TCRBV081_10	0.017	-0.016	-0.004	-0.002	0.008
TCRBV081_11	0.003	-0.001	0.001	0.006	-0.000
TCRBV081_12	0.002	0.002	0.000	0.002	0.001
TCRBV082_4	0.000	0.001	0.003	0.002	0.002
TCRBV082_5	0.004	0.003	0.005	0.002	0.000
TCRBV082_6	0.001	0.005	0.003	-0.003	0.004
TCRBV082_7	0.005	0.006	0.008	-0.011	0.008
TCRBV082_8	0.002	-0.007	-0.003	0.002	0.000
TCRBV082_9	-0.006	-0.006	-0.007	0.002	-0.006
TCRBV082_10	-0.004	-0.004	-0.006	0.004	-0.007
TCRBV082_11	-0.001	0.002	-0.002	0.001	-0.002
TCRBV083_4	0.000	-0.000	0.000	0.001	0.000
TCRBV083_5	0.001	-0.000	-0.001	-0.001	0.001
TCRBV083_6	-0.001	-0.002	0.004	-0.002	-0.000
TCRBV083_7	0.012	-0.002	0.004	0.004	0.001
TCRBV083_8	0.010	0.004	0.004	0.004	-0.015
TCRBV083_9	-0.009	-0.003	-0.001	0.004	0.012
TCRBV083_10	-0.002	0.001	0.002	0.006	0.003
TCRBV083_11	-0.010	0.001	-0.004	-0.012	-0.001
TCRBV083_12	-0.002	0.001	-0.008	-0.004	-0.000
TCRBV09_5	-0.000	-0.000	-0.001	-0.000	-0.000
TCRBV09_6	-0.000	-0.000	0.002	-0.002	-0.003
TCRBV09_7	-0.002	0.000	0.006	-0.006	-0.006
TCRBV09_8	0.006	0.003	0.009	-0.013	0.019
TCRBV09_9	0.000	-0.011	0.009	-0.001	-0.020
TCRBV09_10	0.001	-0.017	-0.003	-0.019	-0.005
TCRBV09_11	0.001	0.001	0.023	0.002	0.001
TCRBV09_12	0.000	-0.003	0.008	-0.004	0.001
TCRBV09_13	0.003	0.001	0.002	-0.001	0.000
TCRBV09_14	0.002	0.001	0.001	0.000	0.001

FIG. 110D

TCRBV09_15	0.000	0.001	0.000	-0.000	0.000
TCRBV10_6	-0.000	0.000	0.001	-0.006	-0.005
TCRBV10_7	0.002	-0.004	-0.008	-0.018	-0.006
TCRBV10_8	0.010	-0.006	-0.005	-0.011	0.004
TCRBV10_9	0.001	-0.006	0.003	0.010	0.003
TCRBV10_10	-0.006	0.002	0.007	0.017	-0.007
TCRBV10_11	-0.002	0.009	0.001	0.004	-0.000
TCRBV10_12	-0.005	0.005	0.001	0.004	-0.000
TCRBV10_13	-0.000	0.000	-0.000	0.001	-0.000
TCRBV11_5	-0.001	0.001	-0.000	-0.000	0.001
TCRBV11_6	-0.003	-0.007	0.005	0.001	0.002
TCRBV11_7	-0.001	-0.007	0.005	-0.001	0.004
TCRBV11_8	-0.000	-0.007	0.002	-0.005	-0.000
TCRBV11_9	0.008	0.001	-0.001	0.000	-0.001
TCRBV11_10	0.003	0.003	-0.001	-0.003	0.006
TCRBV11_11	0.001	0.007	0.001	-0.004	0.003
TCRBV11_12	0.000	0.004	0.002	0.002	-0.002
TCRBV11_13	-0.002	0.003	0.001	0.004	-0.004
TCRBV11_14	-0.001	0.001	-0.001	0.004	-0.002
TCRBV11_15	-0.000	0.000	-0.000	0.001	-0.001
TCRBV12_4	-0.002	0.001	-0.002	-0.002	-0.005
TCRBV12_5	-0.009	0.002	-0.005	-0.002	-0.004
TCRBV12_6	0.005	0.006	-0.006	0.001	-0.004
TCRBV12_7	-0.011	0.003	-0.009	0.001	0.017
TCRBV12_8	0.010	-0.007	-0.001	-0.007	0.001
TCRBV12_9	-0.001	0.000	0.010	-0.000	-0.013
TCRBV12_10	0.002	-0.003	0.003	-0.002	0.002
TCRBV12_11	0.005	0.000	0.007	0.006	0.001
TCRBV12_12	0.001	-0.001	0.003	0.006	0.002
TCRBV13_5	-0.001	0.001	-0.001	0.003	-0.002
TCRBV13_6	0.002	-0.001	0.003	0.010	-0.000
TCRBV13_7	0.003	-0.006	0.003	-0.004	0.020
TCRBV13_8	-0.002	-0.003	0.005	0.009	0.009
TCRBV13_9	-0.001	0.002	-0.008	0.003	0.001
TCRBV13_10	0.005	0.006	0.002	0.005	-0.015
TCRBV13_11	-0.005	0.000	-0.001	-0.018	-0.012
TCRBV13_12	0.001	0.003	-0.003	-0.007	-0.002
TCRBV13_13	-0.001	-0.001	0.001	0.000	-0.000
TCRBV14_5	-0.002	-0.000	0.001	-0.002	-0.008
TCRBV14_6	0.006	-0.000	-0.001	0.005	0.001
TCRBV14_7	-0.005	-0.003	0.008	-0.003	-0.008
TCRBV14_8	0.002	-0.004	-0.001	-0.003	0.017
TCRBV14_9	0.016	0.000	-0.003	-0.004	-0.007
TCRBV14_10	-0.008	0.006	-0.004	0.004	0.007
TCRBV14_11	-0.007	0.001	0.003	0.001	-0.001
TCRBV14_12	-0.002	-0.001	-0.002	0.001	-0.001
TCRBV14_13	-0.001	0.000	0.000	0.001	-0.000
TCRBV15_4	-0.001	0.000	-0.000	-0.000	0.000
TCRBV15_5	-0.012	0.006	-0.005	0.005	0.018
TCRBV15_6	-0.002	-0.006	0.001	0.001	-0.007
TCRBV15_7	-0.002	-0.009	0.005	0.008	-0.010
TCRBV15_8	0.004	-0.006	-0.002	-0.004	-0.022
TCRBV15_9	-0.013	0.001	0.007	-0.010	0.021
TCRBV15_10	0.019	0.005	0.002	-0.005	0.001
TCRBV15_11	0.008	0.006	0.001	-0.000	0.003
TCRBV15_12	0.003	0.001	0.003	0.003	0.002
TCRBV16_5	0.001	-0.000	0.002	0.001	-0.001
TCRBV16_6	-0.002	-0.001	-0.003	0.007	0.010
TCRBV16_7	-0.000	0.007	0.003	0.006	-0.001
TCRBV16_8	0.001	0.014	-0.004	-0.007	0.005
TCRBV16_9	-0.018	-0.012	-0.003	0.003	0.004
TCRBV16_10	0.013	-0.013	-0.006	0.001	-0.005
TCRBV16_11	0.015	0.005	0.001	-0.003	0.005
TCRBV16_12	0.006	0.003	-0.017	0.018	-0.007

FIG. 111A

TCRBV16_13	0.000	-0.002	-0.001	-0.001	-0.001
TCRBV18_3	0.000	0.000	0.000	0.000	0.000
TCRBV18_4	-0.003	0.001	0.009	-0.005	-0.001
TCRBV18_5	-0.001	0.004	0.018	-0.006	-0.001
TCRBV18_6	0.001	0.006	0.031	0.006	0.006
TCRBV18_7	0.001	0.019	0.003	-0.015	0.010
TCRBV18_8	-0.019	-0.003	-0.010	0.005	0.008
TCRBV18_9	-0.023	0.006	-0.004	0.016	-0.004
TCRBV18_10	-0.008	0.011	-0.011	0.011	-0.010
TCRBV18_11	-0.003	0.008	-0.003	0.004	-0.002
TCRBV18_12	-0.002	0.001	-0.001	0.001	-0.001
TCRBV18_13	0.000	0.001	0.000	0.000	0.000
TCRBV20_5	0.001	0.000	0.001	0.000	-0.002
TCRBV20_6	0.002	-0.007	0.001	0.004	-0.002
TCRBV20_7	0.009	-0.006	-0.001	0.009	-0.003
TCRBV20_8	0.007	0.001	0.012	0.019	-0.003
TCRBV20_9	0.007	0.008	0.022	0.003	-0.009
TCRBV20_10	-0.005	-0.018	-0.016	-0.017	-0.004
TCRBV20_11	-0.007	0.004	-0.005	-0.008	0.012
TCRBV20_12	0.001	0.006	-0.001	-0.006	0.002
TCRBV20_13	-0.012	0.009	-0.002	-0.006	0.015
TCRBV20_14	-0.000	0.000	-0.000	-0.000	0.000

	21	22	23	24	25
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TCRBV01_6	0.002	0.001	0.001	0.000	0.004
TCRBV01_7	-0.000	0.003	0.001	0.013	-0.004
TCRBV01_8	-0.006	0.008	-0.007	0.009	0.013
TCRBV01_9	0.009	-0.012	-0.017	0.007	0.004
TCRBV01_10	0.019	0.017	-0.004	-0.026	-0.018
TCRBV01_11	0.002	-0.012	0.009	0.008	0.001
TCRBV01_12	-0.007	-0.002	0.015	0.013	0.002
TCRBV01_13	-0.000	-0.002	0.005	-0.001	0.003
TCRBV01_14	0.000	-0.000	0.000	-0.000	-0.000
TCRBV02_6	-0.002	-0.002	-0.001	-0.003	-0.001
TCRBV02_7	-0.003	-0.008	0.008	-0.003	0.004
TCRBV02_8	-0.008	-0.002	0.005	-0.008	0.002
TCRBV02_9	-0.010	-0.020	0.015	-0.009	-0.004
TCRBV02_10	-0.003	-0.004	0.011	-0.021	-0.001
TCRBV02_11	-0.007	0.003	0.005	-0.007	-0.008
TCRBV02_12	-0.002	0.003	0.003	-0.004	-0.003
TCRBV02_13	-0.001	0.001	-0.001	-0.001	0.002
TCRBV03_4	0.001	0.001	-0.001	0.001	0.000
TCRBV03_5	0.003	0.001	-0.001	0.002	0.001
TCRBV03_6	0.009	0.007	0.008	0.001	0.008
TCRBV03_7	0.004	0.002	0.014	-0.002	-0.001
TCRBV03_8	0.006	0.002	0.012	-0.005	0.011
TCRBV03_9	0.012	-0.002	-0.004	0.006	-0.003
TCRBV03_10	-0.023	-0.008	-0.022	0.011	0.009
TCRBV03_11	0.002	0.001	-0.002	0.004	-0.022
TCRBV03_12	0.008	0.000	-0.012	-0.006	-0.006
TCRBV03_13	-0.002	-0.002	0.012	0.010	0.006
TCRBV04_6	-0.000	0.000	0.000	-0.001	-0.001
TCRBV04_7	0.001	0.001	0.001	0.007	-0.001
TCRBV04_8	0.002	0.002	0.006	0.007	0.002
TCRBV04_9	-0.004	-0.006	0.004	0.016	0.007
TCRBV04_10	0.001	0.003	-0.003	-0.021	0.012
TCRBV04_11	0.008	0.001	-0.005	-0.017	-0.013
TCRBV04_12	0.010	-0.000	0.003	0.003	-0.007
TCRBV04_13	-0.017	-0.005	-0.006	0.004	-0.008
TCRBV04_14	0.001	0.002	-0.001	-0.001	0.010
TCRBV04_15	-0.002	0.003	-0.001	0.002	-0.001
TCRBV051_5	-0.002	0.001	0.002	-0.003	-0.001
TCRBV051_6	-0.009	0.000	0.015	-0.006	-0.018

FIG. 111B

TCRBV051_7	-0.002	0.008	0.012	-0.012	-0.026
TCRBV051_8	0.016	0.007	-0.001	0.021	0.002
TCRBV051_9	-0.022	-0.018	0.001	-0.000	-0.000
TCRBV051_10	0.008	0.006	-0.002	-0.018	0.013
TCRBV051_11	0.006	0.004	-0.030	-0.001	0.004
TCRBV051_12	0.003	0.002	-0.006	0.004	0.010
TCRBV051_13	-0.001	0.002	-0.001	0.004	0.000
TCRBV052_6	-0.002	0.000	0.001	-0.005	-0.001
TCRBV052_7	0.005	0.008	0.000	0.001	0.012
TCRBV052_8	-0.009	0.013	0.002	0.020	-0.019
TCRBV052_9	0.009	0.003	-0.008	0.003	0.009
TCRBV052_10	0.010	-0.009	0.002	-0.015	-0.007
TCRBV052_11	-0.006	-0.000	-0.007	-0.003	-0.004
TCRBV052_12	-0.006	-0.002	-0.002	-0.010	-0.006
TCRBV052_13	-0.002	0.000	0.001	-0.003	-0.001
TCRBV06_5	0.000	0.000	-0.001	-0.001	0.002
TCRBV06_6	0.004	-0.001	0.004	0.009	-0.009
TCRBV06_7	0.006	0.011	0.008	0.001	-0.003
TCRBV06_8	0.003	0.006	0.001	0.003	0.007
TCRBV06_9	0.016	-0.005	-0.003	-0.000	-0.010
TCRBV06_10	-0.009	-0.001	0.001	0.005	0.001
TCRBV06_11	-0.002	-0.008	0.008	0.002	0.021
TCRBV06_12	0.001	-0.003	-0.013	0.006	-0.006
TCRBV06_13	-0.000	0.002	-0.003	-0.002	0.001
TCRBV07_5	0.000	-0.000	0.000	0.000	-0.001
TCRBV07_6	0.003	-0.005	0.008	-0.001	-0.001
TCRBV07_7	-0.005	-0.018	0.010	0.003	-0.007
TCRBV07_8	-0.008	0.009	-0.010	0.003	-0.001
TCRBV07_9	0.000	-0.004	0.003	-0.013	0.028
TCRBV07_10	0.006	0.009	-0.010	0.030	-0.013
TCRBV07_11	0.010	0.005	0.012	0.003	0.003
TCRBV07_12	0.010	0.003	-0.011	-0.003	-0.005
TCRBV07_13	0.003	-0.001	0.002	0.002	0.002
TCRBV081_5	-0.002	0.000	0.003	-0.001	-0.002
TCRBV081_6	-0.004	0.005	-0.003	-0.003	0.002
TCRBV081_7	-0.001	0.003	-0.005	0.008	-0.006
TCRBV081_8	-0.005	0.001	0.005	0.001	-0.010
TCRBV081_9	0.017	-0.033	-0.022	0.019	0.003
TCRBV081_10	0.001	0.016	0.013	-0.015	0.016
TCRBV081_11	-0.004	0.007	0.007	-0.009	-0.002
TCRBV081_12	-0.001	-0.000	0.003	-0.002	-0.002
TCRBV082_4	-0.007	0.006	0.002	-0.001	0.002
TCRBV082_5	-0.002	0.010	0.003	0.007	0.008
TCRBV082_6	-0.003	0.014	0.001	0.003	0.005
TCRBV082_7	0.001	0.014	0.002	0.009	0.009
TCRBV082_8	-0.010	-0.027	-0.012	-0.005	-0.016
TCRBV082_9	0.011	-0.011	-0.002	-0.003	-0.007
TCRBV082_10	0.007	-0.009	-0.001	-0.009	-0.001
TCRBV082_11	0.003	0.003	0.006	-0.000	0.000
TCRBV083_4	-0.000	-0.000	0.001	0.001	0.001
TCRBV083_5	-0.000	-0.000	-0.001	0.001	0.001
TCRBV083_6	-0.004	-0.000	-0.001	0.002	-0.001
TCRBV083_7	-0.004	0.005	-0.000	0.005	-0.004
TCRBV083_8	-0.007	0.004	-0.006	0.003	-0.006
TCRBV083_9	-0.011	-0.005	0.006	-0.002	0.010
TCRBV083_10	0.004	0.001	0.003	-0.013	0.006
TCRBV083_11	0.017	-0.004	-0.006	0.002	-0.011
TCRBV083_12	0.005	-0.001	0.004	0.001	0.004
TCRBV09_5	-0.002	-0.000	0.002	0.001	-0.004
TCRBV09_6	-0.002	0.004	0.006	-0.007	0.003
TCRBV09_7	0.002	0.011	0.008	-0.010	-0.006
TCRBV09_8	-0.012	-0.003	-0.012	-0.038	0.003
TCRBV09_9	-0.012	-0.003	0.009	-0.010	0.030

FIG. 111C

TCRBV09_10	-0.006	0.005	0.008	-0.003	-0.010
TCRBV09_11	0.005	-0.023	-0.020	-0.009	0.010
TCRBV09_12	0.001	0.006	0.014	0.027	0.005
TCRBV09_13	0.001	0.006	0.008	0.015	-0.001
TCRBV09_14	0.002	0.003	0.002	0.008	0.002
TCRBV09_15	0.000	-0.000	0.000	0.001	-0.001
TCRBV10_6	0.008	0.005	-0.006	-0.006	-0.002
TCRBV10_7	0.009	0.005	-0.009	0.001	0.014
TCRBV10_8	0.003	-0.006	-0.005	-0.001	0.018
TCRBV10_9	0.000	-0.012	0.014	0.005	-0.023
TCRBV10_10	-0.005	-0.007	0.005	-0.002	-0.010
TCRBV10_11	-0.011	0.008	0.001	0.006	0.008
TCRBV10_12	-0.006	0.007	0.001	-0.003	-0.005
TCRBV10_13	0.000	0.000	-0.001	0.001	0.000
TCRBV11_5	-0.001	0.001	-0.003	0.002	-0.002
TCRBV11_6	-0.011	0.000	-0.005	0.005	0.001
TCRBV11_7	-0.006	0.003	0.002	0.004	0.001
TCRBV11_8	0.002	-0.000	-0.005	-0.012	-0.008
TCRBV11_9	-0.011	0.008	-0.003	-0.020	-0.018
TCRBV11_10	0.011	-0.012	0.012	0.013	-0.006
TCRBV11_11	0.018	0.003	0.007	0.004	0.013
TCRBV11_12	0.008	-0.007	0.004	0.015	0.014
TCRBV11_13	0.007	0.002	-0.001	0.007	0.008
TCRBV11_14	0.002	0.002	-0.003	0.003	0.000
TCRBV11_15	0.001	0.001	-0.001	0.001	0.000
TCRBV12_4	0.000	0.001	0.002	-0.001	-0.002
TCRBV12_5	0.012	-0.007	0.014	-0.001	-0.002
TCRBV12_6	-0.001	-0.010	0.006	0.002	-0.011
TCRBV12_7	-0.003	-0.018	0.009	-0.002	-0.020
TCRBV12_8	0.001	-0.005	0.002	-0.008	-0.001
TCRBV12_9	0.001	0.012	-0.012	0.016	0.004
TCRBV12_10	-0.023	0.013	-0.001	-0.011	0.011
TCRBV12_11	0.006	0.011	-0.021	0.005	0.016
TCRBV12_12	0.005	0.003	0.001	0.000	0.004
TCRBV13_5	0.001	0.000	-0.001	-0.000	0.000
TCRBV13_6	-0.013	0.003	0.004	0.005	0.008
TCRBV13_7	0.006	0.016	0.001	-0.004	-0.013
TCRBV13_8	-0.008	-0.009	-0.016	0.008	-0.008
TCRBV13_9	0.005	0.003	0.006	-0.012	0.007
TCRBV13_10	-0.002	-0.002	0.015	0.003	-0.004
TCRBV13_11	0.008	-0.001	-0.011	-0.003	0.007
TCRBV13_12	0.001	-0.002	0.003	0.002	0.003
TCRBV13_13	0.001	-0.009	-0.002	0.001	0.000
TCRBV14_5	0.003	0.000	-0.002	-0.000	-0.002
TCRBV14_6	0.006	0.004	-0.002	-0.005	0.000
TCRBV14_7	0.016	-0.004	0.006	-0.007	-0.003
TCRBV14_8	0.003	-0.009	-0.001	0.006	0.003
TCRBV14_9	-0.005	-0.012	-0.003	-0.002	-0.004
TCRBV14_10	-0.011	0.015	-0.001	-0.008	-0.002
TCRBV14_11	-0.014	-0.005	0.004	0.010	0.007
TCRBV14_12	0.001	0.000	-0.000	0.003	0.001
TCRBV14_13	0.001	0.000	-0.001	0.001	0.000
TCRBV15_4	-0.000	0.001	0.000	-0.001	0.001
TCRBV15_5	-0.001	0.013	-0.015	0.001	-0.010
TCRBV15_6	-0.009	-0.001	0.003	0.010	-0.001
TCRBV15_7	-0.013	-0.001	-0.003	0.002	-0.003
TCRBV15_8	0.009	0.009	-0.000	0.005	0.001
TCRBV15_9	0.013	0.011	0.018	-0.007	0.007
TCRBV15_10	0.006	-0.018	0.000	0.014	0.006
TCRBV15_11	0.010	-0.009	0.001	-0.000	0.006
TCRBV15_12	0.003	-0.004	-0.000	-0.001	-0.003
TCRBV16_5	-0.001	0.003	0.001	0.003	-0.001
TCRBV16_6	-0.006	0.009	-0.012	0.019	0.002
TCRBV16_7	-0.003	0.005	-0.000	-0.017	0.002

FIG. 111D

TCRBV16_8	-0.001	0.010	0.005	0.016	0.000
TCRBV16_9	0.006	-0.004	-0.007	0.003	-0.027
TCRBV16_10	-0.005	0.008	-0.032	-0.006	0.008
TCRBV16_11	0.013	-0.003	0.034	0.014	0.009
TCRBV16_12	0.014	-0.016	0.004	-0.018	-0.004
TCRBV16_13	0.001	0.001	0.001	-0.002	-0.001
TCRBV18_3	0.000	-0.000	0.000	0.000	-0.000
TCRBV18_4	-0.004	0.009	0.002	0.009	-0.009
TCRBV18_5	-0.004	0.011	0.002	0.009	-0.015
TCRBV18_6	-0.003	0.001	0.002	0.006	-0.035
TCRBV18_7	-0.012	-0.010	-0.007	0.012	0.004
TCRBV18_8	0.001	-0.024	0.003	-0.003	0.021
TCRBV18_9	0.007	-0.001	-0.010	0.002	0.015
TCRBV18_10	0.010	-0.006	-0.006	-0.008	0.013
TCRBV18_11	0.004	0.004	-0.008	0.003	-0.003
TCRBV18_12	0.001	0.001	-0.000	0.001	-0.001
TCRBV18_13	-0.001	0.000	0.001	-0.001	0.000
TCRBV20_5	-0.002	-0.002	-0.002	0.002	-0.000
TCRBV20_6	-0.005	0.002	-0.000	0.001	0.015
TCRBV20_7	0.001	-0.012	0.005	-0.013	-0.012
TCRBV20_8	-0.010	-0.019	0.007	0.007	0.018
TCRBV20_9	0.018	-0.009	-0.012	0.004	-0.019
TCRBV20_10	-0.002	0.001	0.010	0.032	0.000
TCRBV20_11	0.018	0.018	0.002	-0.007	0.010
TCRBV20_12	0.001	0.004	0.003	-0.008	0.007
TCRBV20_13	0.000	0.017	-0.010	0.007	-0.016
TCRBV20_14	-0.000	0.001	0.000	-0.001	0.001

26 27 28 29 30

TCRBV01_6	-0.004	-0.004	-0.001	0.001	0.004
TCRBV01_7	-0.002	-0.004	0.004	0.005	-0.004
TCRBV01_8	0.015	0.007	0.007	0.005	0.012
TCRBV01_9	0.007	0.014	-0.013	-0.030	-0.036
TCRBV01_10	0.004	0.002	-0.001	0.013	0.002
TCRBV01_11	0.003	0.002	0.004	0.003	0.010
TCRBV01_12	0.004	-0.007	-0.004	0.008	0.011
TCRBV01_13	0.002	0.005	0.001	0.001	-0.000
TCRBV01_14	0.000	0.001	0.000	-0.000	0.000
TCRBV02_6	0.000	0.001	-0.002	0.005	0.022
TCRBV02_7	0.010	-0.006	-0.007	0.004	-0.001
TCRBV02_8	-0.006	-0.009	-0.001	-0.008	0.009
TCRBV02_9	-0.022	0.019	0.013	0.008	-0.010
TCRBV02_10	-0.020	0.005	0.014	-0.004	0.000
TCRBV02_11	-0.020	0.003	-0.003	-0.002	-0.001
TCRBV02_12	-0.009	-0.002	0.014	-0.006	0.002
TCRBV02_13	-0.002	-0.001	-0.000	-0.004	0.000
TCRBV03_4	0.002	-0.000	-0.001	0.000	-0.001
TCRBV03_5	-0.000	-0.001	0.000	0.003	-0.000
TCRBV03_6	0.011	-0.004	0.000	0.008	-0.007
TCRBV03_7	0.006	-0.006	0.013	-0.001	-0.009
TCRBV03_8	-0.007	-0.004	0.028	-0.012	-0.007
TCRBV03_9	-0.012	-0.004	-0.007	-0.024	0.011
TCRBV03_10	0.002	0.007	0.009	0.001	0.017
TCRBV03_11	0.011	0.005	-0.014	0.016	-0.006
TCRBV03_12	0.009	-0.005	-0.018	0.009	0.002
TCRBV03_13	0.007	0.025	-0.015	0.006	-0.001
TCRBV04_6	-0.002	0.001	0.000	0.001	0.001
TCRBV04_7	0.001	-0.008	0.003	0.004	0.010
TCRBV04_8	0.010	-0.013	-0.001	0.003	-0.006
TCRBV04_9	0.013	-0.022	0.003	0.016	-0.007
TCRBV04_10	-0.005	0.007	-0.015	-0.039	-0.015
TCRBV04_11	-0.004	0.012	-0.002	0.018	-0.005
TCRBV04_12	-0.005	0.003	0.003	0.025	0.019

FIG. 112A

TCRBV04_13	-0.003	0.013	-0.001	-0.007	0.004
TCRBV04_14	-0.007	0.002	0.007	-0.012	-0.003
TCRBV04_15	0.002	0.004	0.002	-0.010	0.001
TCRBV051_5	0.002	-0.001	-0.003	0.002	0.010
TCRBV051_6	0.006	-0.015	-0.004	0.018	-0.002
TCRBV051_7	0.023	0.003	0.014	-0.008	0.004
TCRBV051_8	-0.023	-0.014	-0.006	-0.025	0.007
TCRBV051_9	0.019	0.024	0.037	0.025	-0.007
TCRBV051_10	-0.025	0.001	-0.008	0.010	-0.011
TCRBV051_11	0.009	0.008	0.012	-0.012	0.021
TCRBV051_12	-0.014	-0.014	-0.011	0.012	0.010
TCRBV051_13	-0.000	0.001	-0.002	-0.006	0.010
TCRBV052_6	-0.000	-0.000	0.003	-0.015	0.002
TCRBV052_7	-0.007	0.014	0.008	-0.021	0.001
TCRBV052_8	-0.011	-0.011	0.012	-0.001	0.018
TCRBV052_9	0.007	-0.002	-0.009	0.024	-0.019
TCRBV052_10	-0.009	-0.019	0.009	0.005	0.015
TCRBV052_11	0.018	0.006	0.009	0.008	0.013
TCRBV052_12	0.003	0.001	-0.003	0.014	0.012
TCRBV052_13	-0.004	0.002	0.002	0.004	-0.001
TCRBV06_5	0.000	-0.001	0.002	0.002	0.000
TCRBV06_6	-0.007	-0.005	0.003	0.005	-0.003
TCRBV06_7	0.001	-0.004	0.019	0.016	-0.003
TCRBV06_8	-0.005	-0.008	0.011	-0.005	-0.016
TCRBV06_9	-0.021	0.002	0.006	0.005	-0.028
TCRBV06_10	0.016	0.026	-0.013	-0.020	0.006
TCRBV06_11	0.035	0.001	-0.016	-0.015	0.018
TCRBV06_12	0.000	-0.001	-0.015	0.007	0.025
TCRBV06_13	0.010	0.006	0.002	0.010	-0.001
TCRBV07_5	-0.000	-0.000	0.001	-0.001	-0.001
TCRBV07_6	0.003	0.016	-0.020	-0.007	0.004
TCRBV07_7	0.004	0.003	-0.017	-0.007	0.008
TCRBV07_8	-0.002	-0.013	-0.006	0.022	-0.014
TCRBV07_9	0.020	0.013	0.003	-0.028	-0.000
TCRBV07_10	-0.000	-0.003	0.013	0.007	0.017
TCRBV07_11	0.019	0.010	0.012	0.005	-0.013
TCRBV07_12	-0.010	-0.011	0.011	0.012	-0.000
TCRBV07_13	-0.004	-0.000	0.001	0.003	-0.000
TCRBV081_5	0.000	-0.003	-0.001	0.004	0.002
TCRBV081_6	0.007	-0.005	0.003	-0.006	0.012
TCRBV081_7	0.004	0.020	0.022	-0.021	0.009
TCRBV081_8	0.000	0.006	0.037	-0.009	0.011
TCRBV081_9	-0.007	0.014	0.003	0.016	-0.008
TCRBV081_10	-0.002	-0.019	-0.022	-0.008	0.028
TCRBV081_11	-0.001	-0.010	-0.009	0.004	-0.015
TCRBV081_12	-0.001	-0.003	-0.033	0.019	-0.039
TCRBV082_4	-0.005	0.002	0.010	0.007	0.011
TCRBV082_5	-0.001	0.011	-0.000	0.005	0.007
TCRBV082_6	-0.001	0.011	0.017	0.015	0.014
TCRBV082_7	-0.001	0.015	-0.005	0.016	0.002
TCRBV082_8	-0.002	-0.016	-0.005	-0.013	-0.001
TCRBV082_9	0.007	-0.011	-0.009	-0.017	-0.010
TCRBV082_10	-0.003	-0.009	-0.004	-0.011	-0.012
TCRBV082_11	0.005	-0.002	-0.003	-0.001	-0.010
TCRBV083_4	0.001	0.002	-0.001	0.000	-0.000
TCRBV083_5	-0.002	-0.002	-0.008	0.006	-0.010
TCRBV083_6	-0.007	0.001	-0.010	0.006	-0.006
TCRBV083_7	-0.006	0.002	-0.021	0.001	-0.008
TCRBV083_8	-0.005	0.004	-0.011	0.004	0.020
TCRBV083_9	0.001	-0.011	0.008	-0.008	-0.006
TCRBV083_10	0.010	0.008	0.009	-0.008	-0.008
TCRBV083_11	0.005	-0.009	0.019	0.002	0.002
TCRBV083_12	0.004	0.005	0.016	-0.003	0.016

FIG. 112B

TCRBV09_5	-0.000	-0.004	-0.002	0.003	0.001
TCRBV09_6	-0.001	-0.002	0.004	-0.005	0.003
TCRBV09_7	-0.006	-0.005	0.018	0.012	-0.013
TCRBV09_8	-0.004	-0.008	-0.002	-0.011	-0.014
TCRBV09_9	-0.025	-0.014	0.026	0.021	-0.003
TCRBV09_10	-0.014	0.002	-0.027	0.012	0.029
TCRBV09_11	0.002	-0.026	0.002	0.011	0.001
TCRBV09_12	-0.017	0.014	-0.027	-0.023	0.017
TCRBV09_13	-0.005	0.010	-0.010	-0.008	-0.011
TCRBV09_14	-0.002	0.004	0.004	0.002	0.003
TCRBV09_15	-0.000	0.001	0.001	0.001	-0.002
TCRBV10_6	0.006	0.001	0.001	-0.009	0.013
TCRBV10_7	0.009	-0.010	0.005	0.006	0.012
TCRBV10_8	0.013	0.012	0.015	-0.002	0.015
TCRBV10_9	0.013	0.009	0.025	-0.015	-0.026
TCRBV10_10	0.008	-0.016	-0.006	-0.003	-0.005
TCRBV10_11	-0.035	0.005	-0.015	0.014	-0.010
TCRBV10_12	-0.013	-0.000	-0.024	0.010	0.002
TCRBV10_13	0.001	-0.000	-0.000	0.000	-0.000
TCRBV11_5	0.002	0.004	-0.003	0.003	0.003
TCRBV11_6	0.001	-0.002	0.002	0.005	0.007
TCRBV11_7	0.006	0.005	-0.005	0.018	-0.000
TCRBV11_8	0.013	-0.009	0.010	0.016	0.004
TCRBV11_9	0.002	0.019	0.001	-0.008	-0.010
TCRBV11_10	0.010	0.008	-0.004	-0.003	-0.002
TCRBV11_11	0.000	0.008	-0.001	-0.013	0.001
TCRBV11_12	-0.011	-0.015	-0.001	-0.009	0.003
TCRBV11_13	0.001	-0.002	-0.000	-0.004	-0.003
TCRBV11_14	0.004	-0.000	-0.002	0.000	-0.000
TCRBV11_15	0.001	-0.000	-0.001	0.004	0.001
TCRBV12_4	0.001	0.002	-0.001	0.013	-0.003
TCRBV12_5	0.011	0.008	-0.023	0.002	0.027
TCRBV12_6	0.000	-0.005	-0.002	-0.016	0.004
TCRBV12_7	-0.007	-0.016	-0.008	-0.011	0.009
TCRBV12_8	-0.007	0.008	0.012	0.009	-0.008
TCRBV12_9	0.003	-0.003	0.016	0.007	-0.007
TCRBV12_10	-0.002	0.004	-0.002	0.004	-0.016
TCRBV12_11	0.001	-0.000	0.009	-0.003	-0.004
TCRBV12_12	-0.001	0.001	-0.000	-0.006	0.005
TCRBV13_5	0.003	-0.001	-0.001	-0.002	-0.002
TCRBV13_6	-0.009	0.004	-0.008	0.005	-0.019
TCRBV13_7	0.027	0.002	-0.010	0.010	0.014
TCRBV13_8	-0.004	-0.015	0.022	0.015	-0.009
TCRBV13_9	-0.011	0.026	0.012	0.010	0.024
TCRBV13_10	-0.001	-0.006	0.002	-0.021	-0.010
TCRBV13_11	-0.003	-0.013	-0.012	-0.014	-0.013
TCRBV13_12	0.000	0.004	-0.007	-0.008	0.009
TCRBV13_13	-0.002	-0.001	0.003	0.006	0.007
TCRBV14_5	0.001	-0.004	-0.001	0.001	-0.000
TCRBV14_6	0.001	-0.003	0.002	0.002	-0.002
TCRBV14_7	0.011	0.004	0.004	-0.005	0.007
TCRBV14_8	-0.010	0.014	0.006	0.000	-0.007
TCRBV14_9	0.010	0.016	-0.013	0.003	0.003
TCRBV14_10	-0.021	-0.002	-0.012	-0.007	-0.000
TCRBV14_11	0.008	-0.025	0.012	0.007	-0.002
TCRBV14_12	0.001	-0.000	0.003	-0.000	0.001
TCRBV14_13	0.001	0.000	-0.001	-0.000	-0.001
TCRBV15_4	-0.000	-0.002	0.000	-0.005	-0.001
TCRBV15_5	-0.007	0.017	-0.005	0.010	0.007
TCRBV15_6	0.002	0.001	-0.004	0.009	0.003
TCRBV15_7	0.026	-0.019	-0.019	0.003	0.008
TCRBV15_8	0.019	0.012	-0.002	-0.007	-0.009
TCRBV15_9	0.007	0.003	-0.000	0.018	-0.009
TCRBV15_10	-0.011	0.008	0.016	-0.020	0.015

FIG. 112C

TCRBV15_11	-0.005	-0.005	0.012	-0.004	-0.001
TCRBV15_12	-0.001	-0.000	-0.000	0.002	-0.002
TCRBV16_5	0.000	0.003	0.003	-0.004	0.001
TCRBV16_6	0.005	0.026	-0.007	0.001	-0.003
TCRBV16_7	0.021	0.004	0.013	0.006	-0.009
TCRBV16_8	0.020	-0.036	-0.003	-0.010	0.011
TCRBV16_9	-0.016	0.001	0.017	-0.010	0.025
TCRBV16_10	0.001	0.009	0.007	0.004	-0.015
TCRBV16_11	-0.003	0.002	0.012	0.036	0.020
TCRBV16_12	-0.007	-0.003	-0.018	-0.004	0.009
TCRBV16_13	0.005	0.002	0.005	0.004	0.002
TCRBV18_3	-0.000	-0.000	-0.000	0.000	-0.000
TCRBV18_4	-0.008	0.003	0.007	-0.016	-0.002
TCRBV18_5	-0.020	-0.011	0.009	-0.012	0.010
TCRBV18_6	-0.025	0.017	0.016	-0.024	-0.004
TCRBV18_7	-0.004	-0.032	-0.000	-0.013	-0.017
TCRBV18_8	-0.023	0.032	-0.024	0.030	0.000
TCRBV18_9	-0.017	-0.006	0.003	0.016	0.037
TCRBV18_10	0.001	-0.003	0.017	0.010	-0.005
TCRBV18_11	0.004	-0.008	0.007	-0.000	-0.007
TCRBV18_12	0.002	0.001	0.004	0.000	0.003
TCRBV18_13	0.000	-0.001	0.000	0.002	0.001
TCRBV20_5	0.006	0.001	-0.001	0.001	0.004
TCRBV20_6	0.011	-0.004	-0.017	-0.022	0.023
TCRBV20_7	0.012	0.002	0.003	-0.001	0.017
TCRBV20_8	-0.001	0.007	0.016	0.013	0.023
TCRBV20_9	0.006	0.001	-0.018	0.035	0.005
TCRBV20_10	0.004	-0.003	0.006	0.003	-0.075
TCRBV20_11	-0.011	0.003	0.018	-0.009	-0.004
TCRBV20_12	0.002	-0.009	0.006	-0.010	0.007
TCRBV20_13	0.001	0.020	-0.014	-0.000	-0.002
TCRBV20_14	-0.000	-0.001	0.000	-0.004	-0.001

31 32 33 34 35

TCRBV01_6	-0.001	0.003	0.000	0.004	0.001
TCRBV01_7	0.021	0.004	0.008	0.007	0.002
TCRBV01_8	0.023	-0.027	0.014	-0.033	0.003
TCRBV01_9	0.030	0.049	0.013	0.015	0.006
TCRBV01_10	-0.009	0.000	-0.003	-0.011	-0.001
TCRBV01_11	-0.039	-0.031	-0.025	0.018	-0.014
TCRBV01_12	-0.014	0.014	-0.012	-0.005	-0.004
TCRBV01_13	-0.005	-0.005	-0.010	-0.007	-0.003
TCRBV01_14	0.000	-0.000	0.000	0.000	-0.001
TCRBV02_6	0.006	0.014	-0.002	0.010	0.014
TCRBV02_7	-0.019	0.000	-0.001	-0.003	0.015
TCRBV02_8	0.012	-0.013	0.009	-0.006	0.008
TCRBV02_9	0.003	-0.021	-0.003	0.051	0.015
TCRBV02_10	0.004	0.008	0.022	0.017	-0.007
TCRBV02_11	0.003	0.002	0.011	0.007	-0.015
TCRBV02_12	-0.019	-0.007	0.020	-0.012	-0.004
TCRBV02_13	-0.001	-0.007	0.013	-0.001	0.005
TCRBV03_4	0.000	0.001	-0.002	-0.002	-0.001
TCRBV03_5	-0.001	0.001	-0.001	0.003	0.001
TCRBV03_6	0.023	-0.012	-0.012	-0.016	0.007
TCRBV03_7	0.003	-0.007	0.018	0.005	-0.017
TCRBV03_8	0.005	-0.023	0.016	-0.011	0.009
TCRBV03_9	-0.003	0.006	0.001	-0.022	0.016
TCRBV03_10	-0.031	0.013	-0.011	0.020	-0.007
TCRBV03_11	0.005	0.009	0.002	0.035	-0.032
TCRBV03_12	-0.000	0.021	-0.013	-0.026	-0.006
TCRBV03_13	0.007	-0.002	-0.001	-0.002	0.000
TCRBV04_6	-0.003	0.002	-0.001	-0.001	-0.010
TCRBV04_7	-0.006	0.004	-0.009	-0.001	-0.001

FIG. 112D

TCRBV04_8	0.020	-0.023	-0.003	0.020	0.014
TCRBV04_9	0.021	0.000	-0.030	0.005	0.015
TCRBV04_10	-0.030	-0.019	0.008	0.017	0.027
TCRBV04_11	-0.021	0.005	0.018	-0.039	0.030
TCRBV04_12	0.016	0.012	0.054	0.013	0.014
TCRBV04_13	0.000	0.031	-0.035	-0.010	-0.044
TCRBV04_14	-0.003	-0.017	-0.006	-0.005	-0.037
TCRBV04_15	0.005	0.006	0.005	0.001	-0.010
TCRBV051_5	0.008	0.004	-0.011	0.014	0.014
TCRBV051_6	-0.016	-0.016	0.010	-0.002	0.016
TCRBV051_7	-0.001	-0.010	-0.002	0.010	0.007
TCRBV051_8	0.007	0.038	0.035	-0.012	0.031
TCRBV051_9	0.005	-0.011	-0.024	-0.008	0.013
TCRBV051_10	0.011	0.000	-0.002	0.031	-0.003
TCRBV051_11	0.003	-0.028	-0.007	0.026	-0.043
TCRBV051_12	-0.001	-0.004	0.007	-0.001	0.001
TCRBV051_13	-0.005	-0.004	0.002	0.012	-0.011
TCRBV052_6	-0.002	-0.004	0.007	0.016	-0.004
TCRBV052_7	-0.014	0.004	-0.007	0.005	0.010
TCRBV052_8	0.009	-0.010	0.009	0.020	0.021
TCRBV052_9	-0.016	-0.039	-0.004	0.002	-0.006
TCRBV052_10	0.030	0.011	-0.002	0.006	0.020
TCRBV052_11	-0.011	-0.003	-0.001	-0.002	0.006
TCRBV052_12	0.007	0.002	-0.002	-0.002	-0.001
TCRBV052_13	-0.003	-0.001	0.001	-0.000	-0.006
TCRBV06_5	0.004	0.007	0.007	-0.008	-0.009
TCRBV06_6	-0.006	0.019	-0.004	-0.012	-0.002
TCRBV06_7	-0.014	0.031	-0.030	-0.009	-0.001
TCRBV06_8	-0.024	0.001	-0.004	-0.004	-0.037
TCRBV06_9	-0.009	-0.027	0.011	0.013	-0.003
TCRBV06_10	0.036	-0.031	-0.007	0.006	0.032
TCRBV06_11	0.005	-0.006	0.010	-0.005	0.001
TCRBV06_12	0.014	0.015	0.000	0.007	0.015
TCRBV06_13	0.002	0.000	0.001	0.000	-0.002
TCRBV07_5	-0.000	0.000	-0.002	-0.022	-0.002
TCRBV07_6	0.009	-0.008	0.019	-0.016	-0.018
TCRBV07_7	0.019	0.004	-0.026	0.005	-0.003
TCRBV07_8	0.012	0.001	-0.034	-0.008	-0.016
TCRBV07_9	-0.005	0.002	0.014	-0.003	0.006
TCRBV07_10	-0.015	-0.003	0.002	0.010	0.005
TCRBV07_11	-0.007	-0.006	0.010	0.015	0.018
TCRBV07_12	-0.004	0.014	0.010		
TCRBV07_13	-0.003	0.002	0.001	0.007	0.002
TCRBV081_5	-0.001	-0.006	0.003	-0.001	0.001
TCRBV081_6	-0.018	-0.003	-0.007	0.018	0.005
TCRBV081_7	0.002	-0.018	-0.023	-0.002	0.023
TCRBV081_8	0.003	0.007	-0.010	0.011	-0.013
TCRBV081_9	-0.004	-0.002	0.015	-0.013	0.007
TCRBV081_10	0.017	0.031	0.017	0.004	-0.042
TCRBV081_11	0.004	-0.001	0.000	0.013	0.006
TCRBV081_12	-0.003	-0.008	0.004	-0.030	0.011
TCRBV082_4	-0.003	-0.001	0.002	-0.005	-0.001
TCRBV082_5	0.010	0.008	0.013	-0.003	0.002
TCRBV082_6	0.008	-0.006	0.004	-0.009	-0.019
TCRBV082_7	-0.004	0.026	-0.001	-0.000	0.037
TCRBV082_8	-0.011	-0.041	-0.013	-0.038	-0.014
TCRBV082_9	0.006	0.001	-0.010	0.017	0.009
TCRBV082_10	-0.001	-0.005	-0.001	0.023	-0.015
TCRBV082_11	-0.004	0.018	0.006	0.015	-0.000
TCRBV083_4	0.000	0.000	-0.001	-0.002	-0.001
TCRBV083_5	0.008	0.002	0.011	-0.002	0.012
TCRBV083_6	0.005	-0.002	-0.011	0.006	-0.005
TCRBV083_7	0.009	0.000	-0.003	-0.044	

FIG. 113A

TCRBV083_8	0.004	-0.035	-0.002	-0.036	-0.000
TCRBV083_9	-0.016	0.012	-0.028	0.005	-0.008
TCRBV083_10	-0.015	0.023	0.003	0.031	0.008
TCRBV083_11	-0.002	0.002	0.017	0.022	0.005
TCRBV083_12	0.008	-0.002	0.013	0.019	-0.004
TCRBV09_5	0.004	-0.001	0.005	-0.002	0.002
TCRBV09_6	0.006	0.010	0.003	-0.002	0.018
TCRBV09_7	0.014	-0.021	-0.041	0.034	0.003
TCRBV09_8	-0.027	-0.005	0.017	-0.046	0.021
TCRBV09_9	-0.011	0.011	-0.004	0.005	-0.001
TCRBV09_10	-0.014	-0.016	0.007	-0.007	-0.031
TCRBV09_11	-0.006	-0.006	0.033	-0.001	-0.040
TCRBV09_12	0.001	0.012	0.003	0.026	0.026
TCRBV09_13	0.006	0.008	0.007	-0.000	0.019
TCRBV09_14	0.003	0.005	0.008	0.007	0.006
TCRBV09_15	0.003	0.001	-0.002	0.003	0.019
TCRBV10_6	-0.004	0.001	-0.001	0.006	-0.000
TCRBV10_7	-0.006	0.019	-0.016	-0.015	-0.006
TCRBV10_8	0.017	0.007	-0.007	-0.033	-0.014
TCRBV10_9	-0.001	0.009	0.013	-0.000	-0.006
TCRBV10_10	-0.004	-0.028	-0.014	0.007	-0.025
TCRBV10_11	-0.006	-0.001	0.016	0.037	-0.000
TCRBV10_12	0.004	-0.008	0.010	-0.001	0.004
TCRBV10_13	0.000	0.000	-0.001	-0.001	-0.000
TCRBV11_5	-0.003	-0.006	0.000	0.012	0.007
TCRBV11_6	0.000	0.013	-0.012	0.027	0.010
TCRBV11_7	-0.007	-0.007	-0.004	-0.001	-0.001
TCRBV11_8	0.022	-0.006	-0.018	-0.011	-0.023
TCRBV11_9	0.025	0.007	-0.020	-0.002	0.007
TCRBV11_10	-0.003	0.009	0.002	-0.023	-0.026
TCRBV11_11	-0.010	0.004	0.012	-0.008	0.004
TCRBV11_12	-0.013	-0.010	0.022	0.002	0.006
TCRBV11_13	-0.005	0.001	0.008	-0.002	0.008
TCRBV11_14	0.001	0.001	-0.004	-0.004	-0.002
TCRBV11_15	0.000	0.001	-0.001	-0.001	-0.001
TCRBV12_4	-0.003	-0.008	-0.001	0.002	-0.006
TCRBV12_5	0.005	0.011	0.006	-0.004	0.011
TCRBV12_6	-0.020	0.021	0.026	-0.006	-0.023
TCRBV12_7	-0.004	0.029	0.008	0.024	-0.021
TCRBV12_8	0.034	-0.001	-0.009	0.005	0.002
TCRBV12_9	-0.014	-0.028	-0.014	0.014	-0.009
TCRBV12_10	0.012	0.006	-0.015	-0.009	0.026
TCRBV12_11	-0.016	-0.030	-0.002	-0.017	0.016
TCRBV12_12	0.006	0.001	0.001	-0.008	0.003
TCRBV13_5	0.001	0.006	-0.001	0.002	0.005
TCRBV13_6	-0.030	0.001	0.002	0.022	0.012
TCRBV13_7	-0.007	-0.006	0.010	0.022	-0.003
TCRBV13_8	-0.003	-0.004	0.012	0.006	0.008
TCRBV13_9	-0.003	-0.047	0.011	0.002	-0.018
TCRBV13_10	0.020	0.001	0.002	-0.027	-0.013
TCRBV13_11	0.016	0.029	-0.020	-0.005	0.013
TCRBV13_12	0.005	0.011	-0.025	-0.006	-0.016
TCRBV13_13	0.001	0.009	0.009	-0.016	-0.005
TCRBV14_5	-0.000	0.003	0.001	0.002	0.004
TCRBV14_6	0.003	0.001	0.010	-0.002	-0.003
TCRBV14_7	-0.002	-0.007	-0.007	0.011	0.010
TCRBV14_8	0.001	0.004	-0.014	0.009	-0.011
TCRBV14_9	-0.009	-0.020	-0.001	0.008	-0.021
TCRBV14_10	0.009	0.019	-0.007	-0.010	-0.008
TCRBV14_11	0.001	0.000	0.010	-0.022	0.032
TCRBV14_12	-0.003	-0.001	0.009	0.007	-0.002
TCRBV14_13	0.000	0.001	-0.001	-0.002	-0.001
TCRBV15_4	-0.001	-0.005	0.015	0.001	0.006
TCRBV15_5	0.007	0.002	-0.019	-0.020	-0.010

FIG. 113B

				-0.003	0.004
				0.005	0.010
				0.020	-0.039
TCRBV15_6	0.004	0.004	0.020	-0.003	0.004
TCRBV15_7	-0.006	0.009	0.015	0.005	0.010
TCRBV15_8	0.023	-0.022	0.023	0.020	-0.039
TCRBV15_9	-0.033	0.013	-0.019	0.002	0.013
TCRBV15_10	0.005	0.010	-0.036	-0.021	-0.001
TCRBV15_11	0.007	0.001	-0.014	0.005	0.005
TCRBV15_12	0.001	-0.005	0.001	-0.000	0.003
TCRBV16_5	0.001	0.004	0.003	0.001	-0.009
TCRBV16_6	-0.009	-0.012	0.002	0.023	-0.018
TCRBV16_7	0.022	0.003	0.037	0.021	-0.036
TCRBV16_8	-0.032	-0.013	0.036	-0.020	-0.009
TCRBV16_9	0.018	-0.011	-0.041	-0.011	0.054
TCRBV16_10	0.000	-0.011	0.006	0.020	0.000
TCRBV16_11	0.009	0.001	-0.031	0.000	-0.009
TCRBV16_12	-0.006	0.003	-0.020	0.009	0.052
TCRBV16_13	0.004	-0.003	-0.001	0.002	0.000
TCRBV18_3	0.001	-0.001	-0.002	0.001	0.001
TCRBV18_4	0.003	0.008	0.006	0.002	-0.015
TCRBV18_5	-0.001	0.012	0.013	-0.007	0.036
TCRBV18_6	-0.023	-0.008	0.018	-0.004	0.009
TCRBV18_7	0.062	-0.022	0.010	0.035	0.045
TCRBV18_8	0.001	-0.015	0.030	0.008	0.018
TCRBV18_9	0.013	0.013	0.021	-0.018	0.012
TCRBV18_10	0.005	0.015	0.015	-0.003	0.013
TCRBV18_11	0.007	0.022	-0.017	-0.008	0.001
TCRBV18_12	-0.000	-0.001	-0.002	0.002	-0.004
TCRBV18_13	-0.003	-0.004	-0.001	0.000	-0.000
TCRBV20_5	-0.004	-0.004	0.001	0.008	0.010
TCRBV20_6	-0.022	0.009	-0.010	0.039	0.010
TCRBV20_7	-0.013	0.003	-0.001	0.004	0.007
TCRBV20_8	0.007	0.009	-0.008	-0.014	-0.003
TCRBV20_9	-0.005	0.007	-0.036	0.018	-0.011
TCRBV20_10	-0.014	-0.020	0.003	-0.032	0.005
TCRBV20_11	0.020	0.004	0.016	-0.013	-0.023
TCRBV20_12	0.029	0.005	0.007	-0.008	-0.002
TCRBV20_13	0.010	-0.002	0.001	-0.013	-0.009
TCRBV20_14	-0.001	-0.004	0.012	0.000	0.005
	36	37	38	39	40
TCRBV01_6	-0.004	-0.000	-0.003	-0.001	0.003
TCRBV01_7	-0.001	-0.010	0.004	0.017	0.013
TCRBV01_8	-0.031	0.010	-0.008	0.014	0.030
TCRBV01_9	0.001	-0.015	-0.006	0.056	0.019
TCRBV01_10	-0.006	-0.018	0.010	-0.060	0.027
TCRBV01_11	0.036	0.023	-0.014	-0.019	-0.043
TCRBV01_12	0.033	0.003	0.020	-0.017	-0.026
TCRBV01_13	0.007	0.006	0.006	-0.006	-0.021
TCRBV01_14	0.001	-0.001	-0.000	0.001	0.001
TCRBV02_6	0.001	0.003	0.006	0.021	-0.002
TCRBV02_7	0.010	-0.015	0.011	0.015	-0.007
TCRBV02_8	0.004	-0.023	0.003	-0.029	-0.021
TCRBV02_9	-0.001	0.002	0.008	-0.009	0.013
TCRBV02_10	-0.003	-0.021	0.011	0.007	0.002
TCRBV02_11	0.007	-0.024	-0.035	0.025	0.028
TCRBV02_12	-0.006	0.010	0.006	0.017	-0.004
TCRBV02_13	-0.012	0.003	0.001	-0.002	0.004
TCRBV03_4	-0.000	0.002	-0.000	-0.001	-0.000
TCRBV03_5	-0.000	-0.002	-0.001	0.002	-0.008
TCRBV03_6	0.014	0.026	-0.002	-0.015	-0.015
TCRBV03_7	0.009	0.007	-0.003	-0.036	-0.038
TCRBV03_8	0.002	0.003	-0.025	0.001	-0.035
TCRBV03_9	-0.020	-0.012	-0.006	0.036	0.048
TCRBV03_10	0.017	0.017	0.022	-0.018	0.048

FIG. 113C

TCRBV03_11	-0.026	-0.021	0.020	0.017	0.006
TCRBV03_12	0.017	-0.022	0.012	0.010	0.035
TCRBV03_13	0.023	0.000	-0.008	-0.009	0.010
TCRBV04_6	-0.001	-0.001	0.001	-0.003	0.002
TCRBV04_7	0.009	-0.008	0.018	-0.014	0.002
TCRBV04_8	-0.022	-0.022	0.007	0.011	-0.001
TCRBV04_9	-0.048	0.000	-0.015	0.012	0.036
TCRBV04_10	0.017	-0.026	-0.041	-0.014	0.023
TCRBV04_11	0.013	0.033	-0.018	-0.012	0.017
TCRBV04_12	0.033	-0.020	0.047	0.017	0.006
TCRBV04_13	0.006	-0.005	-0.008	0.010	-0.052
TCRBV04_14	-0.012	0.051	-0.001	-0.005	-0.003
TCRBV04_15	0.003	-0.001	0.010	-0.002	-0.030
TCRBV051_5	0.005	0.012	-0.015	0.007	-0.011
TCRBV051_6	0.012	0.031	-0.016	-0.015	0.029
TCRBV051_7	0.010	0.017	-0.020	0.036	0.006
TCRBV051_8	0.014	0.004	0.015	0.009	-0.023
TCRBV051_9	-0.037	-0.017	-0.047	0.000	-0.003
TCRBV051_10	-0.006	-0.025	0.048	0.015	0.005
TCRBV051_11	-0.035	-0.030	0.021	0.006	-0.045
TCRBV051_12	0.028	0.017	0.032	-0.001	-0.015
TCRBV051_13	0.005	-0.001	0.025	0.024	0.022
TCRBV052_6	0.019	0.019	0.022	0.026	0.027
TCRBV052_7	0.002	-0.010	-0.048	-0.009	-0.000
TCRBV052_8	0.001	-0.004	0.001	0.005	-0.021
TCRBV052_9	-0.011	0.034	0.025	0.017	-0.004
TCRBV052_10	0.007	-0.022	0.018	0.030	0.008
TCRBV052_11	-0.013	0.001	0.014	0.013	-0.039
TCRBV052_12	-0.003	-0.011	0.008	0.002	-0.007
TCRBV052_13	-0.005	0.001	0.003	-0.001	0.003
TCRBV06_5	0.004	-0.002	0.002	-0.007	0.001
TCRBV06_6	0.015	-0.016	0.003	-0.003	-0.005
TCRBV06_7	0.017	-0.017	-0.016	0.004	-0.019
TCRBV06_8	0.026	0.021	-0.016	0.001	0.001
TCRBV06_9	-0.024	0.016	0.007	0.001	0.002
TCRBV06_10	-0.008	0.002	0.035	0.008	-0.031
TCRBV06_11	-0.015	-0.004	-0.004	0.003	0.016
TCRBV06_12	0.021	-0.001	-0.014	-0.017	0.035
TCRBV06_13	0.002	-0.001	0.014	-0.005	0.004
TCRBV07_5	-0.001	0.003	-0.003	0.001	0.001
TCRBV07_6	0.012	0.011	0.000	0.007	-0.022
TCRBV07_7	-0.014	-0.019	0.007	0.010	-0.042
TCRBV07_8	0.021	0.042	0.007	-0.030	0.000
TCRBV07_9	-0.018	0.007	0.018	-0.024	0.022
TCRBV07_10	0.021	-0.023	0.002	0.020	0.017
TCRBV07_11	-0.007	-0.028	0.000	0.008	0.021
TCRBV07_12	0.023	0.012	-0.019	-0.010	0.004
TCRBV07_13	-0.001	-0.007	-0.003	0.003	0.002
TCRBV081_5	0.005	0.002	0.004	-0.015	-0.002
TCRBV081_6	0.010	-0.011	0.009	-0.015	0.003
TCRBV081_7	-0.005	-0.015	-0.004	0.016	0.033
TCRBV081_8	0.011	-0.000	0.015	0.017	-0.019
TCRBV081_9	0.022	-0.000	-0.028	0.017	-0.034
TCRBV081_10	-0.041	0.019	-0.041	-0.023	0.034
TCRBV081_11	0.004	0.017	0.023	0.009	0.019
TCRBV081_12	-0.005	-0.011	0.022	0.025	-0.059
TCRBV082_4	0.008	-0.001	0.016	0.030	0.001
TCRBV082_5	0.002	0.014	0.016	-0.009	-0.007
TCRBV082_6	0.022	-0.015	0.004	0.001	-0.012
TCRBV082_7	-0.005	0.025	0.006	-0.023	0.014
TCRBV082_8	0.003	-0.035	-0.014	0.006	0.034
TCRBV082_9	-0.008	0.009	-0.016	-0.014	-0.027
TCRBV082_10	-0.018	-0.000	-0.015	0.005	-0.007

FIG. 113D

TCRBV082_11	-0.005	0.003	0.002	0.004	0.005
TCRBV083_4	0.002	-0.000	-0.001	-0.001	0.001
TCRBV083_5	0.023	0.013	0.002	-0.005	0.005
TCRBV083_6	0.005	0.017	-0.000	-0.002	0.012
TCRBV083_7	0.009	0.018	0.005	-0.024	0.000
TCRBV083_8	-0.019	-0.001	0.005	-0.003	-0.038
TCRBV083_9	-0.007	-0.034	0.000	0.040	0.026
TCRBV083_10	0.003	-0.012	-0.006	0.016	-0.008
TCRBV083_11	-0.021	-0.006	0.003	-0.015	0.003
TCRBV083_12	0.007	0.006	-0.009	-0.007	0.000
TCRBV09_5	0.001	0.001	0.009	-0.003	0.003
TCRBV09_6	0.010	0.000	-0.014	0.009	-0.007
TCRBV09_7	-0.014	0.011	-0.003	0.042	-0.025
TCRBV09_8	0.002	0.002	0.046	-0.001	-0.018
TCRBV09_9	0.005	-0.036	0.045	-0.019	-0.025
TCRBV09_10	-0.057	0.037	-0.058	0.047	0.001
TCRBV09_11	0.028	0.008	-0.033	-0.016	0.013
TCRBV09_12	-0.001	-0.008	0.043	-0.064	0.014
TCRBV09_13	-0.007	-0.002	0.014	-0.016	-0.021
TCRBV09_14	-0.001	-0.004	-0.012	0.006	0.007
TCRBV09_15	-0.003	0.005	-0.001	-0.004	-0.001
TCRBV10_6	0.019	0.001	0.016	0.030	0.009
TCRBV10_7	-0.021	0.017	0.026	0.033	-0.016
TCRBV10_8	0.005	-0.014	-0.011	-0.003	-0.001
TCRBV10_9	-0.014	0.031	0.006	-0.031	-0.009
TCRBV10_10	0.013	-0.009	-0.009	-0.021	0.056
TCRBV10_11	0.001	-0.005	-0.017	0.004	-0.036
TCRBV10_12	-0.004	-0.021	-0.011	-0.011	-0.003
TCRBV10_13	-0.000	0.001	-0.000	-0.001	-0.000
TCRBV11_5	0.006	-0.004	0.004	-0.000	-0.006
TCRBV11_6	0.018	-0.000	-0.007	0.011	-0.024
TCRBV11_7	0.024	-0.021	-0.020	0.017	-0.002
TCRBV11_8	0.035	-0.038	-0.016	-0.029	0.015
TCRBV11_9	0.013	0.003	-0.021	-0.001	-0.015
TCRBV11_10	0.002	0.019	0.024	-0.002	0.008
TCRBV11_11	-0.014	0.005	0.008	0.003	0.012
TCRBV11_12	-0.029	0.024	0.041	-0.007	0.018
TCRBV11_13	-0.017	0.003	-0.002	-0.004	-0.002
TCRBV11_14	-0.000	0.004	-0.001	-0.003	-0.001
TCRBV11_15	-0.000	0.001	-0.000	-0.001	-0.000
TCRBV12_4	-0.007	0.003	-0.006	0.017	-0.015
TCRBV12_5	0.002	-0.016	0.008	0.001	-0.010
TCRBV12_6	-0.004	0.008	0.023	-0.010	-0.008
TCRBV12_7	-0.006	0.025	0.017	0.001	0.021
TCRBV12_8	0.022	0.034	0.006	0.003	0.032
TCRBV12_9	-0.006	-0.035	-0.012	-0.007	-0.002
TCRBV12_10	-0.010	-0.023	0.027	-0.023	0.026
TCRBV12_11	0.013	0.006	-0.040	0.009	-0.021
TCRBV12_12	-0.003	-0.003	-0.022	0.010	-0.022
TCRBV13_5	0.007	0.003	-0.001	-0.002	-0.004
TCRBV13_6	0.018	0.014	-0.013	0.017	0.006
TCRBV13_7	0.050	0.006	-0.008	0.006	-0.018
TCRBV13_8	-0.048	-0.034	0.013	-0.070	-0.027
TCRBV13_9	-0.023	0.026	0.021	0.038	0.068
TCRBV13_10	0.000	0.004	0.006	0.007	0.011
TCRBV13_11	-0.001	-0.009	-0.024	-0.002	-0.015
TCRBV13_12	0.006	-0.007	-0.008	0.002	0.006
TCRBV13_13	-0.009	-0.002	0.015	0.005	-0.025
TCRBV14_5	0.000	-0.001	-0.003	-0.003	-0.006
TCRBV14_6	0.010	-0.005	0.005	-0.010	0.004
TCRBV14_7	0.004	0.001	-0.002	0.013	-0.013
TCRBV14_8	-0.012	-0.000	-0.003	-0.010	0.044
TCRBV14_9	-0.004	0.021	0.014	-0.048	-0.039
TCRBV14_10	0.006	-0.037	-0.023	0.047	0.014

FIG. 114A

TCRBV14_11	0.001	0.018	0.014	0.016	-0.011
TCRBV14_12	-0.005	0.001	0.000	-0.003	0.007
TCRBV14_13	0.000	0.001	-0.001	-0.002	0.000
TCRBV15_4	-0.011	-0.000	0.000	-0.001	0.001
TCRBV15_5	0.007	-0.008	0.011	0.006	-0.001
TCRBV15_6	-0.029	-0.011	-0.011	-0.029	-0.000
TCRBV15_7	0.014	0.039	-0.007	-0.011	0.010
TCRBV15_8	0.022	-0.048	-0.005	-0.045	0.019
TCRBV15_9	-0.025	0.003	-0.003	0.014	-0.034
TCRBV15_10	0.031	0.022	0.023	0.039	0.012
TCRBV15_11	0.026	0.007	0.002	0.010	-0.003
TCRBV15_12	0.002	-0.007	0.000	0.003	-0.001
TCRBV16_5	0.002	0.002	0.006	0.006	-0.012
TCRBV16_6	0.015	0.008	-0.025	-0.007	-0.001
TCRBV16_7	0.029	0.025	0.057	0.062	-0.014
TCRBV16_8	0.007	-0.042	0.011	0.037	0.013
TCRBV16_9	0.001	0.005	0.016	-0.027	0.007
TCRBV16_10	-0.028	0.045	0.007	0.007	-0.008
TCRBV16_11	-0.011	-0.021	-0.039	0.001	-0.011
TCRBV16_12	0.021	-0.019	0.014	-0.009	-0.010
TCRBV16_13	-0.002	0.002	0.005	-0.001	0.004
TCRBV18_3	-0.001	0.001	0.000	0.003	-0.000
TCRBV18_4	0.009	-0.002	-0.011	0.000	0.007
TCRBV18_5	0.002	0.003	-0.019	0.004	-0.008
TCRBV18_6	-0.018	0.008	0.014	-0.006	0.009
TCRBV18_7	0.020	0.031	-0.046	0.015	-0.029
TCRBV18_8	0.030	-0.024	-0.019	0.010	0.007
TCRBV18_9	0.004	0.018	-0.014	-0.013	0.050
TCRBV18_10	0.004	0.011	0.013	-0.027	-0.014
TCRBV18_11	0.011	0.001	0.013	0.003	0.001
TCRBV18_12	-0.002	-0.001	0.001	-0.001	0.002
TCRBV18_13	0.003	0.001	-0.001	-0.009	-0.007
TCRBV20_5	0.002	-0.006	0.002	-0.007	-0.005
TCRBV20_6	0.012	-0.016	0.004	0.001	0.003
TCRBV20_7	0.019	0.009	-0.029	-0.002	-0.026
TCRBV20_8	0.009	0.007	0.004	0.018	-0.008
TCRBV20_9	-0.050	-0.002	0.004	0.012	0.017
TCRBV20_10	0.015	-0.010	0.020	0.013	0.049
TCRBV20_11	0.014	0.017	-0.041	-0.023	-0.011
TCRBV20_12	0.008	-0.000	0.031	-0.038	-0.018
TCRBV20_13	0.018	0.000	0.015	0.012	0.001
TCRBV20_14	-0.009	-0.000	0.000	-0.001	0.001
	41	42	43	44	45
TCRBV01_6	-0.001	0.004	-0.005	0.001	0.003
TCRBV01_7	0.017	-0.018	-0.033	-0.012	0.001
TCRBV01_8	-0.011	-0.048	-0.017	0.053	-0.006
TCRBV01_9	0.018	0.015	0.014	-0.056	-0.022
TCRBV01_10	-0.020	0.017	0.031	0.027	-0.036
TCRBV01_11	0.026	0.007	-0.003	-0.046	-0.010
TCRBV01_12	0.001	0.019	-0.000	0.008	0.052
TCRBV01_13	-0.000	0.009	0.009	0.005	0.011
TCRBV01_14	0.001	0.000	0.001	-0.001	-0.001
TCRBV02_6	0.014	-0.027	0.021	0.000	-0.001
TCRBV02_7	-0.003	-0.017	0.004	-0.033	0.004
TCRBV02_8	0.009	0.046	-0.043	-0.012	-0.026
TCRBV02_9	0.002	-0.002	-0.002	0.024	0.013
TCRBV02_10	-0.003	-0.024	-0.003	0.001	0.003
TCRBV02_11	-0.000	-0.012	0.024	-0.014	-0.043
TCRBV02_12	0.025	0.010	-0.047	0.002	-0.010
TCRBV02_13	0.001	-0.012	-0.002	0.000	-0.014
TCRBV03_4	-0.001	0.001	0.001	0.001	0.002
TCRBV03_5	-0.002	0.002	0.001	-0.000	0.003

FIG. 114B

TCRBV03_6	0.014	-0.012	0.039	0.026	0.006
TCRBV03_7	0.024	-0.030	0.049	-0.043	0.008
TCRBV03_8	0.002	0.018	0.017	0.024	-0.006
TCRBV03_9	-0.025	-0.022	-0.020	0.003	-0.022
TCRBV03_10	0.020	0.009	-0.009	-0.006	0.009
TCRBV03_11	-0.019	0.040	-0.041	0.008	0.027
TCRBV03_12	-0.008	0.026	-0.020	-0.001	0.007
TCRBV03_13	0.025	-0.026	-0.019	-0.031	-0.044
TCRBV04_6	0.003	0.004	0.003	0.001	-0.010
TCRBV04_7	0.010	0.005	0.037	0.016	-0.003
TCRBV04_8	-0.005	0.035	-0.021	-0.012	0.013
TCRBV04_9	-0.001	0.037	0.004	0.056	-0.074
TCRBV04_10	-0.021	-0.002	-0.022	-0.022	0.084
TCRBV04_11	0.003	-0.059	0.028	-0.027	0.010
TCRBV04_12	-0.006	-0.010	-0.005	-0.032	0.004
TCRBV04_13	0.015	-0.010	-0.054	-0.023	-0.024
TCRBV04_14	0.005	-0.006	0.030	0.033	0.031
TCRBV04_15	-0.005	0.006	0.001	0.010	-0.031
TCRBV051_5	-0.018	0.012	0.025	-0.018	0.029
TCRBV051_6	-0.024	0.020	0.047	0.027	0.026
TCRBV051_7	-0.052	0.009	-0.015	0.048	-0.031
TCRBV051_8	-0.020	-0.021	0.007	-0.028	0.005
TCRBV051_9	0.006	-0.038	-0.037	0.012	-0.003
TCRBV051_10	0.051	0.009	0.007	-0.006	0.047
TCRBV051_11	0.063	-0.022	0.011	0.046	-0.009
TCRBV051_12	-0.053	0.025	-0.052	-0.038	-0.087
TCRBV051_13	-0.011	0.014	0.051	-0.031	0.021
TCRBV052_6	-0.006	-0.026	0.020	0.022	0.025
TCRBV052_7	-0.019	-0.008	-0.002	0.032	-0.048
TCRBV052_8	0.003	-0.030	0.023	0.019	-0.003
TCRBV052_9	0.015	0.040	0.027	-0.013	-0.046
TCRBV052_10	-0.052	-0.002	-0.030	-0.015	0.029
TCRBV052_11	0.015	0.008	-0.014	-0.020	0.036
TCRBV052_12	-0.016	0.014	0.008	-0.015	0.022
TCRBV052_13	0.001	0.011	0.009	0.001	-0.015
TCRBV06_5	0.015	-0.016	0.009	-0.006	0.003
TCRBV06_6	0.008	-0.010	-0.009	0.002	0.005
TCRBV06_7	0.017	0.004	-0.010	-0.014	-0.001
TCRBV06_8	0.003	0.013	-0.046	0.029	-0.005
TCRBV06_9	-0.015	-0.043	-0.046	-0.028	0.016
TCRBV06_10	0.003	-0.014	0.075	0.005	-0.051
TCRBV06_11	-0.010	0.040	0.039	-0.028	0.036
TCRBV06_12	0.008	0.026	-0.024	0.021	-0.003
TCRBV06_13	0.002	0.006	0.008	-0.001	-0.009
TCRBV07_5	-0.006	-0.007	0.002	0.008	0.010
TCRBV07_6	0.038	-0.007	-0.009	0.010	-0.023
TCRBV07_7	0.009	-0.001	-0.008	0.039	-0.001
TCRBV07_8	-0.010	-0.028	0.002	-0.028	0.030
TCRBV07_9	-0.004	-0.005	-0.011	0.005	-0.005
TCRBV07_10	0.008	0.009	0.011	-0.033	0.019
TCRBV07_11	0.000	0.027	0.017	-0.033	-0.005
TCRBV07_12	-0.006	0.016	-0.005	0.013	-0.035
TCRBV07_13	0.000	0.000	-0.002	-0.002	0.001
TCRBV081_5	-0.009	0.004	0.002	0.007	0.015
TCRBV081_6	-0.027	0.010	0.024	0.027	-0.009
TCRBV081_7	0.013	-0.027	-0.018	-0.031	-0.000
TCRBV081_8	-0.047	-0.002	-0.028	-0.064	-0.036
TCRBV081_9	0.036	0.013	0.010	0.047	-0.008
TCRBV081_10	0.010	0.011	-0.002	-0.001	0.008
TCRBV081_11	0.021	-0.002	-0.001	-0.006	0.002
TCRBV081_12	0.002	-0.008	0.013	0.021	0.028
TCRBV082_4	0.010	-0.011	0.016	0.007	-0.013
TCRBV082_5	-0.002	0.005	-0.014	0.011	0.018
TCRBV082_6	-0.010	0.001	0.001	-0.007	-0.020

FIG. 114C

TCRBV082_7	-0.003	0.000	-0.003	-0.078	-0.037
TCRBV082_8	-0.006	0.001	0.030	-0.005	-0.081
TCRBV082_9	-0.009	0.005	-0.040	0.042	0.050
TCRBV082_10	0.010	0.015	0.016	0.035	0.022
TCRBV082_11	0.010	-0.016	-0.007	-0.006	0.060
TCRBV083_4	0.002	-0.002	-0.001	-0.003	-0.003
TCRBV083_5	0.014	0.044	-0.015	0.011	0.015
TCRBV083_6	-0.013	-0.005	-0.013	0.001	0.001
TCRBV083_7	-0.004	0.006	-0.034	0.013	-0.022
TCRBV083_8	-0.010	-0.036	0.033	-0.016	0.003
TCRBV083_9	-0.025	-0.002	0.030	-0.028	0.000
TCRBV083_10	-0.001	-0.028	0.035	-0.013	-0.011
TCRBV083_11	-0.005	-0.002	-0.015	0.020	0.003
TCRBV083_12	0.040	0.025	-0.020	0.015	0.014
TCRBV09_5	0.002	0.001	0.002	0.004	-0.000
TCRBV09_6	0.010	0.012	-0.019	0.040	0.015
TCRBV09_7	0.044	-0.044	-0.042	-0.060	-0.051
TCRBV09_8	0.000	-0.005	-0.024	0.017	-0.003
TCRBV09_9	0.031	-0.015	0.017	0.049	0.005
TCRBV09_10	0.054	0.080	-0.059	-0.049	0.019
TCRBV09_11	0.006	-0.030	-0.013	-0.014	0.025
TCRBV09_12	-0.047	-0.023	-0.080	0.040	0.007
TCRBV09_13	-0.028	-0.022	0.042	-0.005	0.021
TCRBV09_14	-0.032	0.000	0.029	-0.026	0.007
TCRBV09_15	-0.011	-0.007	0.012	-0.002	-0.004
TCRBV10_6	-0.012	-0.024	-0.001	0.021	0.012
TCRBV10_7	-0.030	0.035	0.034	-0.017	0.017
TCRBV10_8	-0.033	0.024	0.016	-0.037	-0.007
TCRBV10_9	-0.011	-0.027	-0.018	-0.010	0.025
TCRBV10_10	0.071	-0.025	-0.030	0.000	-0.034
TCRBV10_11	0.007	0.029	0.010	0.041	0.012
TCRBV10_12	0.009	-0.012	-0.011	0.002	-0.026
TCRBV10_13	-0.001	0.000	0.001	0.000	0.001
TCRBV11_5	0.005	0.001	0.014	0.013	-0.011
TCRBV11_6	-0.004	-0.017	0.015	-0.031	0.019
TCRBV11_7	-0.005	0.020	0.015	0.014	0.022
TCRBV11_8	-0.004	-0.020	0.019	0.010	0.031
TCRBV11_9	-0.004	0.006	-0.042	-0.005	0.004
TCRBV11_10	-0.002	0.030	-0.013	0.005	0.001
TCRBV11_11	0.022	-0.001	0.006	0.002	-0.020
TCRBV11_12	0.023	-0.003	-0.014	-0.024	-0.052
TCRBV11_13	0.004	-0.011	-0.006	-0.006	-0.010
TCRBV11_14	-0.002	0.002	0.003	0.002	0.004
TCRBV11_15	-0.001	0.001	0.001	0.001	0.002
TCRBV12_4	0.012	0.005	0.002	-0.015	0.004
TCRBV12_5	0.020	0.007	-0.016	-0.007	-0.006
TCRBV12_6	-0.010	-0.012	0.010	-0.028	0.018
TCRBV12_7	-0.022	-0.018	0.059	0.017	-0.035
TCRBV12_8	0.008	-0.025	-0.020	0.029	0.024
TCRBV12_9	-0.017	0.011	-0.023	-0.001	-0.008
TCRBV12_10	0.035	0.001	0.003	-0.003	-0.014
TCRBV12_11	-0.014	0.015	-0.003	-0.002	0.010
TCRBV12_12	-0.014	0.017	-0.012	0.010	0.006
TCRBV13_5	0.001	0.009	0.003	-0.014	0.001
TCRBV13_6	0.015	-0.034	0.041	0.003	-0.011
TCRBV13_7	0.008	-0.034	-0.039	0.035	-0.022
TCRBV13_8	-0.030	0.048	-0.009	-0.011	-0.008
TCRBV13_9	0.007	0.014	-0.032	-0.038	-0.009
TCRBV13_10	0.047	0.001	0.002	0.032	-0.008
TCRBV13_11	-0.028	0.003	0.009	0.032	0.003
TCRBV13_12	-0.003	-0.010	0.012	-0.008	0.027
TCRBV13_13	-0.017	0.004	0.014	-0.010	0.006
TCRBV14_5	-0.006	0.006	-0.008	0.006	-0.002

FIG. 114D

TCRBV14_6	0.013	-0.005	0.017	0.004	-0.027
TCRBV14_7	0.007	-0.018	-0.063	0.031	0.009
TCRBV14_8	0.016	0.011	0.038	-0.045	0.002
TCRBV14_9	-0.004	-0.003	0.016	-0.002	0.012
TCRBV14_10	-0.030	0.010	0.024	-0.015	0.021
TCRBV14_11	0.016	0.013	0.001	0.025	-0.007
TCRBV14_12	-0.013	-0.014	-0.024	-0.005	-0.009
TCRBV14_13	0.000	0.000	0.000	0.000	0.001
TCRBV15_4	0.003	-0.013	-0.005	-0.006	-0.014
TCRBV15_5	0.031	0.006	0.012	0.003	0.032
TCRBV15_6	-0.006	-0.012	0.009	-0.042	-0.031
TCRBV15_7	-0.021	-0.003	-0.009	-0.004	-0.040
TCRBV15_8	0.021	0.033	-0.003	0.003	0.049
TCRBV15_9	-0.030	-0.001	0.008	-0.012	-0.010
TCRBV15_10	-0.010	-0.011	0.013	0.056	0.005
TCRBV15_11	0.046	0.003	-0.019	-0.022	0.002
TCRBV15_12	-0.003	0.003	-0.009	0.004	-0.002
TCRBV16_5	0.007	0.006	0.011	-0.005	0.018
TCRBV16_6	0.015	0.036	0.034	-0.018	0.027
TCRBV16_7	0.001	0.061	0.016	0.043	-0.038
TCRBV16_8	0.027	-0.075	-0.031	-0.021	0.032
TCRBV16_9	0.022	0.031	0.020	0.017	-0.015
TCRBV16_10	-0.068	-0.048	-0.027	-0.004	-0.013
TCRBV16_11	-0.018	-0.043	0.014	0.037	-0.007
TCRBV16_12	-0.011	0.040	0.002	-0.058	-0.023
TCRBV16_13	-0.002	0.004	0.001	-0.000	0.010
TCRBV18_3	0.002	-0.003	-0.005	-0.004	-0.000
TCRBV18_4	0.014	0.020	-0.008	0.011	-0.014
TCRBV18_5	0.015	0.045	0.030	0.026	-0.038
TCRBV18_6	0.017	0.049	0.044	0.009	0.046
TCRBV18_7	0.007	-0.026	0.010	-0.044	0.043
TCRBV18_8	-0.054	-0.020	-0.004	0.017	-0.071
TCRBV18_9	0.025	-0.018	0.015	0.016	0.044
TCRBV18_10	0.056	0.034	-0.023	-0.046	-0.009
TCRBV18_11	-0.002	0.035	-0.028	0.019	-0.034
TCRBV18_12	0.001	0.000	-0.003	-0.001	0.007
TCRBV18_13	-0.007	0.002	0.001	0.003	0.010
TCRBV20_5	0.012	0.004	0.013	0.007	-0.014
TCRBV20_6	0.051	-0.025	-0.015	0.063	-0.029
TCRBV20_7	0.023	0.041	0.023	-0.029	-0.041
TCRBV20_8	-0.050	0.054	-0.046	-0.015	0.087
TCRBV20_9	0.017	-0.065	0.036	0.010	0.030
TCRBV20_10	-0.014	0.028	-0.014	0.030	0.004
TCRBV20_11	-0.007	0.022	0.041	-0.006	-0.034
TCRBV20_12	-0.009	-0.024	-0.011	-0.073	-0.013
TCRBV20_13	0.007	-0.018	-0.026	-0.003	0.010
TCRBV20_14	0.002	-0.011	-0.004	-0.005	-0.011

46 47 48 49 50

TCRBV01_6	-0.014	-0.003	-0.023	-0.003	-0.020
TCRBV01_7	0.002	0.037	-0.012	-0.004	0.004
TCRBV01_8	0.008	0.016	-0.015	0.012	0.009
TCRBV01_9	0.010	-0.008	0.021	-0.048	-0.014
TCRBV01_10	-0.039	0.041	-0.006	-0.089	-0.003
TCRBV01_11	-0.017	-0.024	0.009	0.082	0.009
TCRBV01_12	0.024	0.000	-0.026	0.037	-0.015
TCRBV01_13	0.015	-0.022	0.017	0.016	0.001
TCRBV01_14	-0.001	0.002	0.001	0.000	-0.000
TCRBV02_6	-0.005	0.036	-0.004	-0.077	0.076
TCRBV02_7	0.016	-0.003	-0.002	-0.024	0.046
TCRBV02_8	0.042	-0.025	0.032	0.099	-0.019
TCRBV02_9	-0.043	0.005	-0.037	0.009	-0.084
TCRBV02_10	0.029	-0.029	-0.034	-0.016	-0.026

FIG. 115A

TCRBV02_11	-0.051	-0.007	-0.053	-0.033	-0.008
TCRBV02_12	0.003	-0.029	0.043	-0.010	-0.001
TCRBV02_13	0.004	0.011	-0.012	-0.001	-0.001
TCRBV03_4	0.000	0.001	0.002	0.001	0.000
TCRBV03_5	-0.010	0.001	0.001	-0.002	-0.001
TCRBV03_6	0.015	0.008	-0.095	0.047	-0.075
TCRBV03_7	-0.009	-0.004	0.002	-0.030	-0.015
TCRBV03_8	-0.022	-0.006	-0.014	0.009	0.028
TCRBV03_9	-0.003	0.002	0.005	-0.014	0.080
TCRBV03_10	0.045	0.043	0.057	-0.041	-0.032
TCRBV03_11	-0.030	0.029	0.033	0.022	0.010
TCRBV03_12	0.010	-0.013	-0.002	0.020	0.029
TCRBV03_13	-0.007	-0.022	-0.023	-0.011	-0.054
TCRBV04_6	0.012	0.006	0.003	0.002	-0.011
TCRBV04_7	0.001	0.045	0.030	-0.028	0.008
TCRBV04_8	0.024	0.016	-0.002	0.032	0.000
TCRBV04_9	0.017	-0.057	0.008	-0.030	0.019
TCRBV04_10	0.055	0.016	-0.019	-0.012	0.031
TCRBV04_11	-0.008	-0.028	-0.014	0.005	-0.040
TCRBV04_12	-0.021	-0.016	-0.038	0.104	0.022
TCRBV04_13	-0.077	0.027	0.028	-0.066	0.010
TCRBV04_14	0.001	0.021	0.008	0.011	-0.071
TCRBV04_15	-0.005	-0.030	-0.004	-0.019	0.033
TCRBV051_5	-0.021	-0.040	-0.010	0.040	0.014
TCRBV051_6	0.005	0.007	-0.050	-0.077	0.006
TCRBV051_7	-0.048	-0.005	0.070	0.019	-0.065
TCRBV051_8	-0.005	0.005	0.084	0.003	-0.018
TCRBV051_9	0.047	-0.065	-0.025	0.022	0.008
TCRBV051_10	-0.060	0.029	0.009	-0.012	0.044
TCRBV051_11	-0.028	-0.010	-0.031	-0.029	0.053
TCRBV051_12	0.036	0.031	-0.031	0.025	0.024
TCRBV051_13	0.022	-0.036	-0.019	0.024	-0.002
TCRBV052_6	0.018	-0.005	0.014	-0.061	0.029
TCRBV052_7	-0.018	-0.024	0.054	0.021	-0.010
TCRBV052_8	0.006	0.007	-0.052	0.004	0.046
TCRBV052_9	-0.039	0.003	-0.036	-0.065	-0.017
TCRBV052_10	-0.008	-0.035	0.027	-0.019	-0.026
TCRBV052_11	-0.031	-0.027	-0.031	0.038	0.067
TCRBV052_12	0.001	-0.003	0.007	0.007	-0.014
TCRBV052_13	0.020	0.001	0.001	-0.008	-0.022
TCRBV06_5	0.009	0.007	-0.031	-0.022	0.006
TCRBV06_6	0.006	0.007	0.003	0.016	0.024
TCRBV06_7	0.044	0.021	0.006	0.003	0.000
TCRBV06_8	-0.018	-0.007	0.006	0.028	0.036
TCRBV06_9	0.008	-0.020	-0.022	0.014	-0.028
TCRBV06_10	0.053	-0.027	0.042	-0.017	0.037
TCRBV06_11	-0.010	0.012	-0.031	-0.023	-0.020
TCRBV06_12	-0.085	0.045	-0.024	0.011	-0.063
TCRBV06_13	-0.017	0.001	0.025	0.022	-0.041
TCRBV07_5	-0.000	-0.005	0.016	0.019	-0.019
TCRBV07_6	0.007	0.032	0.000	-0.067	-0.016
TCRBV07_7	-0.012	0.017	-0.008	-0.044	0.066
TCRBV07_8	0.050	-0.014	0.030	0.091	-0.011
TCRBV07_9	-0.023	0.006	-0.039	-0.005	0.012
TCRBV07_10	-0.001	-0.008	-0.052	-0.028	0.032
TCRBV07_11	-0.015	0.003	0.001	0.023	-0.046
TCRBV07_12	-0.001	0.006	0.018	-0.007	-0.005
TCRBV07_13	-0.016	0.002	-0.001	-0.006	0.006
TCRBV081_5	-0.006	-0.016	-0.013	-0.057	-0.077
TCRBV081_6	-0.018	-0.001	0.013	0.004	0.007
TCRBV081_7	-0.021	-0.014	-0.001	-0.002	0.013
TCRBV081_8	0.024	-0.038	-0.025	0.026	0.041
TCRBV081_9	0.014	0.035	-0.053	0.017	0.027
TCRBV081_10	-0.021	-0.024	-0.024		

FIG. 115B

TCRBV081_11	0.004	0.041	0.022	0.024	0.020
TCRBV081_12	0.024	0.017	0.081	-0.006	-0.035
TCRBV082_4	-0.009	-0.063	0.072	0.021	-0.001
TCRBV082_5	-0.033	0.022	0.009	-0.015	0.034
TCRBV082_6	-0.013	-0.026	0.070	0.018	0.100
TCRBV082_7	-0.033	0.026	-0.065	-0.053	-0.084
TCRBV082_8	-0.029	-0.003	-0.041	0.064	-0.041
TCRBV082_9	0.056	0.002	-0.016	-0.015	-0.005
TCRBV082_10	0.029	0.030	-0.033	-0.047	-0.014
TCRBV082_11	0.033	0.011	0.005	0.027	0.010
TCRBV083_4	-0.000	-0.002	-0.002	-0.001	-0.005
TCRBV083_5	0.006	0.013	0.069	0.050	0.031
TCRBV083_6	-0.023	-0.004	0.009	0.005	0.076
TCRBV083_7	-0.010	-0.027	-0.047	-0.007	-0.037
TCRBV083_8	-0.012	0.006	0.040	-0.042	0.006
TCRBV083_9	-0.015	0.007	-0.020	0.010	-0.056
TCRBV083_10	0.035	-0.029	0.045	-0.037	-0.040
TCRBV083_11	0.012	-0.027	-0.035	-0.043	0.054
TCRBV083_12	0.007	0.063	-0.058	0.065	-0.030
TCRBV09_5	0.010	0.005	-0.006	0.000	-0.005
TCRBV09_6	0.044	-0.002	-0.014	-0.055	0.031
TCRBV09_7	0.055	0.052	-0.051	-0.025	-0.053
TCRBV09_8	-0.034	0.032	-0.039	0.053	0.008
TCRBV09_9	-0.032	-0.048	-0.066	-0.053	0.063
TCRBV09_10	0.005	-0.062	0.047	-0.036	0.009
TCRBV09_11	0.021	-0.029	0.038	-0.010	-0.046
TCRBV09_12	0.004	-0.123	0.013	-0.005	-0.071
TCRBV09_13	-0.026	0.001	-0.007	0.014	-0.005
TCRBV09_14	0.018	0.011	-0.046	0.020	0.033
TCRBV09_15	0.003	0.032	-0.044	0.022	0.012
TCRBV10_6	-0.004	-0.017	0.048	-0.058	-0.014
TCRBV10_7	0.014	0.004	-0.039	-0.005	-0.086
TCRBV10_8	0.039	0.044	0.065	0.030	-0.026
TCRBV10_9	-0.067	0.016	-0.005	0.037	0.098
TCRBV10_10	0.003	-0.079	0.014	-0.059	0.027
TCRBV10_11	-0.004	0.014	-0.052	0.030	-0.012
TCRBV10_12	0.018	0.017	-0.032	0.025	0.012
TCRBV10_13	0.000	0.001	0.001	0.001	0.000
TCRBV11_5	-0.005	0.005	0.016	-0.018	-0.052
TCRBV11_6	0.002	-0.018	0.003	-0.039	-0.042
TCRBV11_7	0.004	-0.017	0.013	0.003	-0.053
TCRBV11_8	0.023	-0.008	0.010	0.006	0.085
TCRBV11_9	0.026	0.011	-0.060	0.062	-0.017
TCRBV11_10	-0.046	0.004	-0.041	-0.038	0.033
TCRBV11_11	-0.037	0.058	0.021	0.038	0.043
TCRBV11_12	0.021	-0.022	-0.000	-0.019	-0.028
TCRBV11_13	0.001	0.021	-0.001	0.002	0.002
TCRBV11_14	0.000	0.002	0.004	0.003	0.001
TCRBV11_15	0.000	0.001	0.001	0.001	0.000
TCRBV12_4	-0.011	0.018	0.014	0.002	0.010
TCRBV12_5	0.035	0.006	0.022	0.003	0.007
TCRBV12_6	0.016	0.007	-0.019	0.018	0.007
TCRBV12_7	-0.012	0.015	0.025	0.047	-0.023
TCRBV12_8	-0.000	0.016	0.074	0.068	0.001
TCRBV12_9	0.016	0.001	-0.104	0.012	-0.041
TCRBV12_10	-0.002	0.008	0.050	-0.035	0.057
TCRBV12_11	-0.014	-0.068	-0.027	-0.047	0.030
TCRBV12_12	-0.028	-0.003	-0.036	-0.067	-0.067
TCRBV13_5	0.007	-0.006	0.003	0.004	-0.003
TCRBV13_6	-0.041	-0.010	0.007	0.049	0.058
TCRBV13_7	-0.005	0.044	0.016	-0.039	-0.054
TCRBV13_8	-0.024	0.027	0.085	0.021	-0.044
TCRBV13_9	0.021	0.021	0.015	0.006	0.044

FIG. 115C

TCRBV13_10	0.025	-0.006	-0.061	-0.018	-0.042
TCRBV13_11	0.019	-0.040	-0.045	0.021	0.018
TCRBV13_12	0.001	-0.006	-0.012	0.016	0.002
TCRBV13_13	-0.003	-0.024	-0.009	-0.059	0.022
TCRBV14_5	0.001	-0.006	-0.002	0.001	0.010
TCRBV14_6	0.028	-0.008	0.046	0.011	-0.040
TCRBV14_7	-0.041	0.028	-0.029	-0.014	0.015
TCRBV14_8	-0.046	0.009	0.021	-0.014	0.024
TCRBV14_9	0.008	-0.111	-0.043	-0.066	0.011
TCRBV14_10	-0.048	0.004	-0.006	0.084	-0.018
TCRBV14_11	0.085	0.049	0.017	0.024	-0.008
TCRBV14_12	0.013	0.032	-0.006	-0.026	0.007
TCRBV14_13	0.001	0.002	0.001	0.001	-0.001
TCRBV15_4	0.003	0.015	-0.011	-0.006	0.007
TCRBV15_5	-0.006	-0.029	-0.035	-0.025	-0.068
TCRBV15_6	-0.009	0.039	-0.004	0.023	-0.047
TCRBV15_7	0.008	0.046	-0.055	-0.020	0.079
TCRBV15_8	-0.015	0.002	0.017	0.036	-0.031
TCRBV15_9	-0.020	-0.040	0.039	0.010	0.015
TCRBV15_10	0.010	-0.014	0.014	0.036	0.042
TCRBV15_11	0.041	0.016	-0.007	-0.047	-0.050
TCRBV15_12	-0.023	0.003	0.007	-0.005	0.025
TCRBV16_5	0.005	0.018	0.007	-0.056	0.049
TCRBV16_6	0.021	-0.006	0.001	0.025	0.083
TCRBV16_7	-0.020	-0.102	-0.058	0.001	-0.017
TCRBV16_8	-0.028	0.010	0.002	0.006	-0.064
TCRBV16_9	-0.008	0.004	0.001	0.002	0.014
TCRBV16_10	-0.020	0.047	-0.008	0.011	-0.032
TCRBV16_11	-0.026	0.044	0.047	-0.004	-0.001
TCRBV16_12	0.006	-0.049	-0.032	0.025	-0.005
TCRBV16_13	0.007	-0.011	0.001	0.007	0.018
TCRBV18_3	0.004	-0.007	0.000	-0.005	-0.006
TCRBV18_4	0.048	-0.024	0.044	-0.043	0.000
TCRBV18_5	0.050	-0.002	-0.013	0.049	0.045
TCRBV18_6	0.045	0.068	0.008	-0.047	-0.032
TCRBV18_7	-0.122	-0.018	0.030	0.007	-0.003
TCRBV18_8	0.047	0.053	0.013	-0.067	0.004
TCRBV18_9	-0.035	-0.049	0.001	0.011	-0.023
TCRBV18_10	-0.031	-0.035	0.067	0.012	-0.086
TCRBV18_11	-0.023	-0.006	0.032	0.022	-0.019
TCRBV18_12	-0.002	0.001	0.002	-0.001	0.010
TCRBV18_13	-0.009	-0.013	-0.007	-0.004	0.006
TCRBV20_5	0.000	0.030	0.023	-0.006	-0.059
TCRBV20_6	-0.024	0.035	0.000	0.053	0.015
TCRBV20_7	-0.042	0.009	0.018	-0.027	0.031
TCRBV20_8	-0.012	0.049	-0.028	-0.050	-0.060
TCRBV20_9	0.047	-0.058	0.006	0.106	-0.030
TCRBV20_10	-0.032	-0.027	-0.006	-0.041	0.004
TCRBV20_11	0.023	-0.016	0.011	-0.012	-0.042
TCRBV20_12	0.023	0.039	-0.012	-0.027	0.091
TCRBV20_13	0.004	-0.035	-0.039	0.010	0.016
TCRBV20_14	0.002	0.012	-0.009	-0.005	0.006

51

52

TCRBV01_6	0.005	0.001
TCRBV01_7	-0.006	-0.031
TCRBV01_8	-0.041	0.095
TCRBV01_9	-0.033	-0.074
TCRBV01_10	0.023	0.004
TCRBV01_11	-0.031	-0.003
TCRBV01_12	0.061	-0.024
TCRBV01_13	0.013	0.015
TCRBV01_14	-0.001	-0.001

FIG. 115D

TCRBV02_6	0.046	-0.048
TCRBV02_7	-0.037	-0.026
TCRBV02_8	-0.145	0.046
TCRBV02_9	0.013	0.004
TCRBV02_10	-0.005	-0.031
TCRBV02_11	-0.009	-0.017
TCRBV02_12	-0.016	-0.055
TCRBV02_13	0.001	-0.016
TCRBV03_4	0.004	0.004
TCRBV03_5	-0.004	0.007
TCRBV03_6	-0.016	-0.040
TCRBV03_7	0.029	-0.066
TCRBV03_8	0.031	0.020
TCRBV03_9	0.014	0.036
TCRBV03_10	-0.011	-0.047
TCRBV03_11	-0.033	0.022
TCRBV03_12	-0.010	-0.010
TCRBV03_13	-0.014	0.054
TCRBV04_6	-0.011	0.006
TCRBV04_7	-0.018	-0.073
TCRBV04_8	0.047	-0.036
TCRBV04_9	-0.004	-0.211
TCRBV04_10	-0.047	0.160
TCRBV04_11	0.051	0.048
TCRBV04_12	-0.024	0.043
TCRBV04_13	-0.053	0.022
TCRBV04_14	0.066	0.002
TCRBV04_15	-0.007	0.039
TCRBV051_5	-0.065	-0.049
TCRBV051_6	-0.039	-0.035
TCRBV051_7	-0.027	-0.083
TCRBV051_8	-0.005	0.041
TCRBV051_9	0.034	0.030
TCRBV051_10	-0.058	0.050
TCRBV051_11	0.055	0.073
TCRBV051_12	0.042	-0.006
TCRBV051_13	0.058	0.027
TCRBV052_6	-0.014	-0.102
TCRBV052_7	0.018	0.036
TCRBV052_8	0.000	0.045
TCRBV052_9	0.042	0.045
TCRBV052_10	0.020	0.055
TCRBV052_11	-0.012	-0.030
TCRBV052_12	-0.036	-0.015
TCRBV052_13	-0.024	0.016
TCRBV06_5	-0.025	-0.013
TCRBV06_6	-0.014	-0.034
TCRBV06_7	-0.060	-0.039
TCRBV06_8	0.084	0.001
TCRBV06_9	-0.054	-0.049
TCRBV06_10	0.011	0.063
TCRBV06_11	0.015	-0.009
TCRBV06_12	-0.003	0.021
TCRBV06_13	0.036	0.039
TCRBV07_5	0.001	-0.032
TCRBV07_6	0.007	-0.050
TCRBV07_7	-0.025	-0.006
TCRBV07_8	0.023	0.044
TCRBV07_9	-0.038	-0.054
TCRBV07_10	0.073	0.054
TCRBV07_11	-0.008	0.067
TCRBV07_12	-0.029	-0.046
TCRBV07_13	-0.014	0.003
TCRBV081_5	0.020	0.006

FIG. 116A

TCRBV081_6	-0.014	0.043
TCRBV081_7	0.006	0.034
TCRBV081_8	-0.028	-0.034
TCRBV081_9	-0.008	-0.039
TCRBV081_10	0.004	0.040
TCRBV081_11	-0.013	0.012
TCRBV081_12	0.033	-0.062
TCREV082_4	0.103	-0.021
TCRBV082_5	-0.054	-0.020
TCRBV082_6	0.101	-0.007
TCRBV082_7	-0.086	0.107
TCRBV082_8	0.013	-0.019
TCRBV082_9	-0.050	0.023
TCRBV082_10	-0.033	-0.055
TCRBV082_11	0.006	-0.009
TCRBV083_4	-0.001	0.004
TCRBV083_5	-0.020	-0.000
TCRBV083_6	-0.047	-0.001
TCRBV083_7	0.059	0.043
TCRBV083_8	-0.098	0.001
TCRBV083_9	0.052	0.013
TCRBV083_10	0.062	-0.018
TCRBV083_11	-0.052	0.017
TCRBV083_12	0.044	-0.058
TCRBV09_5	0.011	0.003
TCRBV09_6	0.022	0.052
TCRBV09_7	-0.055	0.091
TCRBV09_8	0.050	-0.010
TCRBV09_9	0.001	-0.032
TCRBV09_10	0.025	-0.007
TCRBV09_11	0.043	0.004
TCRBV09_12	0.004	-0.125
TCRBV09_13	-0.083	-0.060
TCRBV09_14	-0.079	0.009
TCRBV09_15	-0.009	-0.023
TCRBV10_6	-0.004	-0.022
TCRBV10_7	-0.026	-0.011
TCRBV10_8	0.002	-0.074
TCRBV10_9	0.008	0.041
TCRBV10_10	-0.045	0.092
TCRBV10_11	0.028	-0.027
TCRBV10_12	0.035	-0.001
TCRBV10_13	0.002	0.002
TCRBV11_5	0.012	0.022
TCRBV11_6	0.032	0.015
TCRBV11_7	-0.045	0.092
TCRBV11_8	-0.087	-0.067
TCRBV11_9	0.058	-0.057
TCRBV11_10	-0.034	0.013
TCRBV11_11	0.028	-0.071
TCRBV11_12	0.006	0.022
TCRBV11_13	0.008	-0.000
TCRBV11_14	0.009	0.008
TCRBV11_15	0.003	0.003
TCRBV12_4	-0.047	-0.033
TCRBV12_5	0.023	0.054
TCRBV12_6	-0.034	-0.007
TCRBV12_7	-0.007	0.118
TCRBV12_8	0.045	0.008
TCRBV12_9	0.039	-0.101
TCRBV12_10	0.000	-0.021
TCRBV12_11	-0.041	-0.037
TCRBV12_12	0.021	0.021
TCRBV13_5	0.022	-0.015

FIG. 116B

TCRBV13_6	-0.092	-0.029
TCRBV13_7	0.026	-0.025
TCRBV13_8	-0.000	0.059
TCRBV13_9	0.018	-0.032
TCRBV13_10	0.052	-0.005
TCRBV13_11	0.019	0.095
TCRBV13_12	0.004	0.015
TCRBV13_13	-0.049	-0.062
TCRBV14_5	-0.001	0.008
TCRBV14_6	-0.057	-0.008
TCRBV14_7	0.025	-0.026
TCRBV14_8	0.031	-0.010
TCRBV14_9	0.008	0.011
TCRBV14_10	0.024	-0.017
TCRBV14_11	-0.078	0.052
TCRBV14_12	0.044	-0.011
TCRBV14_13	0.002	0.001
TCRBV15_4	0.009	-0.022
TCRBV15_5	-0.035	-0.067
TCRBV15_6	-0.002	-0.026
TCRBV15_7	0.072	0.028
TCRBV15_8	0.017	0.013
TCRBV15_9	0.023	0.006
TCRBV15_10	-0.028	0.080
TCRBV15_11	-0.049	-0.040
TCRBV15_12	-0.016	0.008
TCRBV16_5	0.079	0.016
TCRBV16_6	0.007	0.014
TCRBV16_7	-0.070	0.070
TCRBV16_8	-0.002	-0.030
TCRBV16_9	0.030	0.025
TCRBV16_10	-0.079	-0.041
TCRBV16_11	-0.016	0.044
TCRBV16_12	0.034	-0.070
TCRBV16_13	0.002	0.001
TCRBV18_3	0.003	0.009
TCRBV18_4	-0.018	0.015
TCRBV18_5	-0.019	0.010
TCRBV18_6	0.012	-0.028
TCRBV18_7	0.036	-0.045
TCRBV18_8	0.011	-0.001
TCRBV18_9	-0.069	-0.013
TCRBV18_10	-0.003	-0.006
TCRBV18_11	0.023	0.099
TCRBV18_12	0.002	0.001
TCRBV18_13	0.009	0.002
TCRBV20_5	0.028	0.033
TCRBV20_6	-0.063	0.010
TCRBV20_7	-0.062	-0.056
TCRBV20_8	0.022	0.084
TCRBV20_9	0.041	0.027
TCRBV20_10	-0.008	0.044
TCRBV20_11	-0.018	0.003
TCRBV20_12	0.051	-0.065
TCRBV20_13	-0.008	-0.083
TCRBV20_14	0.007	-0.018

Standardized scores have been saved.

FIG. 116C

OBLON ET AL (703) 413-3000
DOCKET # 263996US0X PCT
INV. Alexis COLLETTE et al.
USSN 10/519,950
Reply to O.A. DATED NOVEMBER 1, 2007
REPLACEMENT SHEET(S)

53 cases and 56 variables processed and saved.

SYSTAT Rectangular file C:\Utilisateurs\OGp8586\Pr810G290802F.SYD,
created Fri Aug 30, 2002 at 10:39:56, contains variables:

CASE\$	GROUP\$	FACTOR(1.. 52)	TSQUARE	PROB
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Group frequencies

	F3*	F3*S	FS	FT	R3*	R3*6
	5	10	5	9	5	5
	RS	RT				
	5	9				

Group means

FIG. 116D

	F3*	F3*S	FS	FT	R3*
FACTOR(1)	- 0.029	- 0.701	9 0.78	0.582	6 0.55 0.97
FACTOR(2)	- 0.652	- 0.065	0.584 1.28 0.11	0.647	6 -
FACTOR(3)	0.66 7	1.28 5	0 0.97	1.234	0.470
FACTOR(4)	0.56 1	- 0.170	2 0.38	0.038	0.367 0.20
FACTOR(5)	0.44 8	- 0.469	2 0.12	0.026 0.42	2 -
FACTOR(6)	0.28 2	0.12 6	0 0	5 0.40	0.546 0.11
FACTOR(7)	1.26 7	0.08 0.07	1.236 -	1 0.29	4 0.20
FACTOR(8)	0.530 -	2 -	0.258 0.12	2 0.11	6 -
FACTOR(9)	0.147 -	0.371 -	4 0.01	5 0.22	0.221 -
FACTOR(10)	0.446 0.43	0.130 -	9 -	5 -	0.179 0.00
FACTOR(11)	4 0.83	0.536 -	0.076 0.02	0.120 0.42	1 0.20
FACTOR(12)	8 -	0.514 0.16	2 0.45	0 0.38	7 -
FACTOR(13)	0.646 0.63	1 -	0 -	6 -	0.429 0.20
FACTOR(14)	8 0.28	0.370 0.14	0.210 0.43	0.257 -	9 -
FACTOR(15)	5 -	3 -	0 -	0.321 0.21	0.217 -
FACTOR(16)	0.020 -	0.127 0.42	0.144 -	4 -	0.111 -
FACTOR(17)	0.458 -	7 0.27	0.945 0.43	0.293 -	0.113 -
FACTOR(18)	0.852 0.22	1 0.03	5 0.05	0.086 0.04	0.474 0.34
FACTOR(19)	0 1.02	4 0.17	5 -	1 0.13	0 -
FACTOR(20)	7 -	9 0.33	0.153 0.32	5 0.71	0.054 -
FACTOR(21)	0.859 -	2 -	0 -	3 0.24	0.432 -
FACTOR(22)	0.048 -	0.018 -	0.247 0.03	8 0.28	0.226 0.08
FACTOR(23)	0.449 0.26	0.240 -	2 0.35	7 -	1 -
FACTOR(24)	6 -	0.323 -	9 0.17	0.043 -	0.658 0.04
FACTOR(25)	0.225 -	0.194 0.23	1 -	0.156 0.24	5 -
FACTOR(26)	0.255 0.38	4 -	0.829 -	0 0.08	0.231 0.07
FACTOR(27)	9 -	0.260 0.08	1.069 0.05	0 0.02	5 -
FACTOR(28)	0.222 -	0 0.03	5 -	7 0.07	0.197 0.00
FACTOR(29)	0.112 -	0 0.14	0.050 0.00	0 0.12	4 0.58
FACTOR(30)	0.439 -	2 -	5 0.21	9 -	4 -
FACTOR(31)	0.104 -	0.046 -	8 -	0.406 -	0.123 -

FIG. 117A

FACTOR(32)	0.25	-	-	0.06	-
	8	0.046	0.316	3	1.439
FACTOR(33)	0.04	-	-	0.18	-
	1	0.090	0.323	9	0.732
FACTOR(34)	0.16	-	-	-	-
	0	0.126	0.199	0.061	0.107
FACTOR(35)	-	0.05	-	0.02	0.02
	0.200	1	0.141	7	7
FACTOR(36)	-	0.01	-	-	-
	0.040	9	0.167	0.220	0.329
FACTOR(37)	0.26	0.04	0.08	-	0.06
	6	2	7	0.328	3
FACTOR(38)	0.12	-	0.18	0.00	-
	9	0.118	4	1	0.584
FACTOR(39)	0.29	-	0.17	-	-
	8	0.086	3	0.194	0.728
FACTOR(40)	0.189	9	0.152	9	0.352
	0.04	0.03	-	0.13	-
FACTOR(41)	2	0	0.129	8	0.684
	0.01	0.06	-	-	0.26
FACTOR(42)	1	7	0.343	0.103	6
	0.15	-	-	0.03	-
FACTOR(43)	3	0.138	0.118	8	0.640
	0.15	0.03	-	-	-
FACTOR(44)	5	4	0.690	0.037	0.356
	0.01	-	-	-	0.20
FACTOR(45)	2	0.073	0.015	0.330	8
	-	0.01	0.15	0.15	-
FACTOR(46)	0.062	8	5	9	0.302
	-	0.09	-	0.31	0.36
FACTOR(47)	0.167	9	0.789	5	1
	-	0.08	-	-	0.48
FACTOR(48)	0.118	7	0.168	0.011	3
	-	0.10	-	-	-
FACTOR(49)	0.089	6	0.313	0.013	0.045
	-	0.15	0.09	-	0.44
FACTOR(50)	0.119	0	1	0.073	6
	0.00	0.00	0.04	-	0.08
FACTOR(51)	7	3	5	0.079	4
	-	0.05	-	-	-
FACTOR(52)	0.029	2	0.016	0.018	0.047

FIG. 117B

	R3*S	RS	RT
FACTOR(1)	0.14	0.98	0.00
	8	5	1
	1.04	-	0.36
FACTOR(2)	6	0.140	0
	-	-	-
FACTOR(3)	0.172	0.043	0.244
	-	-	-
FACTOR(4)	0.615	0.068	0.042
	-	0.02	0.29
FACTOR(5)	0.607	2	9
	-	-	-
FACTOR(6)	0.309	0.314	0.096
	-	-	-
FACTOR(7)	0.164	0.524	0.192
	-	-	0.22
FACTOR(8)	0.025	0.459	0
	-	0.16	0.19
FACTOR(9)	0.26	7	3
	5	-	-
	-	0.27	0.28
FACTOR(10)	0.314	1	0
	-	0.33	0.22
FACTOR(11)	0.18	1	7
	8	-	-
	0.15	-	-
FACTOR(12)	5	0.396	0.307
	-	0.23	-
FACTOR(13)	0.476	7	0.084
	-	-	0.54
FACTOR(14)	0.277	0.134	2
	-	-	-
FACTOR(15)	0.27	0.092	0.214
	0	-	-
FACTOR(16)	-	0.05	0.06
	0.023	2	4
FACTOR(17)	0.13	0.31	0.41
	8	2	1
FACTOR(18)	0.24	0.21	0.02
	2	5	6
FACTOR(19)	-	-	-
	0.009	0.225	0.291
FACTOR(20)	0.02	0.03	-
	9	7	0.827
FACTOR(21)	-	0.10	-
	0.537	9	0.306
FACTOR(22)	0.78	-	0.07
	9	0.804	0
FACTOR(23)	0.22	-	0.18
	1	0.249	2
FACTOR(24)	0.51	1.03	-
	4	2	0.438
FACTOR(25)	0.73	0.11	-
	6	7	0.097
FACTOR(26)	0.41	0.06	-
	4	1	0.033
FACTOR(27)	0.10	0.86	0.00
	8	1	6
FACTOR(28)	-	-	0.38
	0.339	0.197	4
FACTOR(29)	-	0.64	-
	0.052	7	0.346
FACTOR(30)	-	0.02	-
	0.066	7	0.348
FACTOR(31)	0.41	0.42	-
	1	8	0.004

FIG. 117C

FACTOR(32)	0.004	0.005	5	0.82
FACTOR(33)	0.53	0.78	-	
FACTOR(34)	6	9	0.262	0.14
FACTOR(35)	-	0.55	1	
FACTOR(36)	0.303	8	-	0.63
FACTOR(37)	-	1	0.205	
FACTOR(38)	0.098	0.05	0.19	
FACTOR(39)	0.50	0	0	
FACTOR(40)	4	-	0.41	0.30
FACTOR(41)	-	1	3	
FACTOR(42)	0.869	-	0.24	
FACTOR(43)	0.52	0.456	4	
FACTOR(44)	2	-	0.59	
FACTOR(45)	0.20	-		
FACTOR(46)	0	0.491	4	
FACTOR(47)	-	0.22	0.32	
FACTOR(48)	0.598	9	6	
FACTOR(49)	0.21	0.41	-	
FACTOR(50)	8	2	0.093	
FACTOR(51)	-	0.77	-	
FACTOR(52)	0.426	4	0.128	
FACTOR(53)	0.41	0.07	0.17	
FACTOR(54)	7	4	8	
FACTOR(55)	-	0.66	0.22	
FACTOR(56)	0.184	1	9	
FACTOR(57)	-	0.03	0.36	
FACTOR(58)	0.159	1	7	
FACTOR(59)	0.67	-	-	
FACTOR(60)	5	0.075	0.396	
FACTOR(61)	-	0.56	-	
FACTOR(62)	0.667	2	0.035	
FACTOR(63)	-	-	0.17	
FACTOR(64)	0.257	0.406	4	
FACTOR(65)	0.01	0.51	-	
FACTOR(66)	2	4	0.149	
FACTOR(67)	-	-	-	
FACTOR(68)	0.219	0.128	0.133	
FACTOR(69)	-	0.12	0.46	
FACTOR(70)	0.963	3	6	
FACTOR(71)	-	0.08	0.02	
FACTOR(72)	0.107	2	5	

FIG. 117D

Between groups F-matrix -- df = 45 1

	F3*	F3*S	FS	FT	R3*	
F3*	0.00					
F3*:	0					
F3*:	52.3	0.00				
FS	67	0				
FS	26.4	63.0	0.00			
FT	26	91	0			
FT	29.5	34.4	10.0	0.00		
R3*	44	64	96	0		
R3*:	18.7	47.6	2.03	5.20	0.00	
R3*:	57	04	0	5	0	
R3*:	26.4	14.5	14.7	1.90	8.65	
RS	37	04	02	2	6	
RS	22.7	65.3	0.58	11.7	2.04	
RT	84	76	8	54	6	
RT	41.8	13.6	27.0	6.50	18.2	
RT	61	67	23	5	75	

OBLON ET AL (703) 413-3000
 DOCKET # 2639961JS0X PCT
 INV. Alexis COLLETTTE et al.
 USSN 10/519,950
 Reply to O.A. DATED NOVEMBER 1, 2007
 REPLACEMENT SHEET(S)

	R3*S	RS	RT
R3*	0	0.00	
RS	21	15.9	0.00
RT	4	1.02	29.4
		65	0.00

Wilks' lambda

Lambda = 0.0000 df = 45 7 45
 Approx. F= 5.2756 df = 315 20 prob = 0.0000

Classification functions

	F3*	F3*S	FS	FT	R3*
CONSTANT	7356.799	5637.861	4201.980	306.080	2116.499
CONSTANT	427.721	4460.284	-	1225.056	-

FIG. 118A

FACTOR(1)	88	-	28	37	19
	5.325	3336.155	32.243	9.611	94.506
FACTOR(2)	-	64	-	53	-
	1189.608	0.078	482.200	.800	357.182
FACTOR(3)	73	29	-	-	-
	3.254	54.265	2573.948	619.584	1742.564
FACTOR(4)	11	-	98	34	71
	03.939	1214.829	0.686	.868	6.431
FACTOR(5)	91	-	12	11	90
	0.353	1522.227	22.642	6.464	9.387
FACTOR(6)	28	29	-	-	-
	8.258	5.952	265.061	80.595	187.563
FACTOR(7)	16	10	-	-	-
	19.786	96.056	1193.107	387.205	625.109
FACTOR(8)	-	90	-	33	-
	1140.457	7.611	691.194	.196	544.344
FACTOR(9)	-	-	66	15	42
	249.941	743.279	1.489	9.031	9.891
FACTOR(10)	-	-	27	14	11
	719.913	227.624	8.814	5.837	6.473
FACTOR(11)	79	-	10	94	78
	0.282	1311.675	30.215	.504	3.396
FACTOR(12)	14	-	10	29	86
	97.052	1420.478	38.720	.468	2.841
FACTOR(13)	-	-	18	14	0.
	895.490	47.340	1.539	1.537	971
FACTOR(14)	81	-	23	-	25
	6.867	413.070	4.639	49.142	6.640
FACTOR(15)	48	46	-	-	-
	2.076	.884	67.783	88.142	23.844
FACTOR(16)	-	-	11	39	71
	81.496	130.719	0.991	.778	.874
FACTOR(17)	-	20	-	-	-
	1191.607	57.059	1679.725	166.411	1231.019
FACTOR(18)	-	61	-	96	-
	1417.776	6.412	343.838	.728	391.897
FACTOR(19)	52	-	16	-	16
	5.084	254.610	4.486	33.702	6.883
FACTOR(20)	19	-	11	-	23
	52.578	354.785	0.301	225.896	3.415
FACTOR(21)	-	37	-	13	-
	1234.827	9.534	151.066	0.150	255.522
FACTOR(22)	-	12	-	-	-
	666.088	07.799	1022.400	80.786	720.577
FACTOR(23)	-	-	20	15	83
	833.821	153.721	1.197	6.884	.376
FACTOR(24)	94	-	15	14	10
	1.573	1846.576	37.538	5.061	85.487
FACTOR(25)	-	-	50	11	33
	242.956	560.933	8.925	7.562	4.727
FACTOR(26)	-	13	-	-	-
	745.639	98.794	1164.052	110.083	838.579
FACTOR(27)	77	-	37	-	34
	8.920	569.483	2.121	23.140	5.486
FACTOR(28)	-	69	-	-	-
	657.807	9.621	536.667	11.767	429.010
FACTOR(29)	25	-	62	72	43
	2.459	729.338	9.608	.267	2.399
FACTOR(30)	-	-	26	86	16
	329.901	254.889	7.568	.791	2.336
FACTOR(31)	-	-	38	53	25
	15.784	425.790	8.537	.283	0.897
FACTOR(32)	-	15	-	-	-

FIG. 118B

FACTOR(1)	-	29	-
	516.421	71.510	1210.085
	32	-	51
FACTOR(2)	2.374	595.120	3.744
	15	-	62
FACTOR(3)	9.068	2501.821	9.296
	-	10	-
FACTOR(4)	353.442	96.718	654.132
	-	13	-
FACTOR(5)	328.479	31.529	672.563
	-	-	3.
FACTOR(6)	37.733	251.033	499
	-	-	-
FACTOR(7)	152.418	1010.654	74.246
	30	-	57
FACTOR(8)	9.949	835.407	0.266
	-	64	-
FACTOR(9)	28.284	2.608	141.922
	10	19	12
FACTOR(10)	0.762	6.379	2.348
	-	11	-
FACTOR(11)	267.696	44.530	570.825
	-	12	-
FACTOR(12)	410.379	11.799	784.511
	-	62	20
FACTOR(13)	9.889	.525	0.266
	-	34	-
FACTOR(14)	174.147	0.427	311.017
	-	-	-
FACTOR(15)	89.587	14.115	123.256
	3.	10	-
FACTOR(16)	673	3.078	10.157
	44	-	91
FACTOR(17)	8.489	1806.603	4.382
	30	-	52
FACTOR(18)	5.935	512.894	9.741
	-	21	-
FACTOR(19)	122.409	9.704	213.257
	-	33	-
FACTOR(20)	397.324	3.055	619.912
	23	-	40
FACTOR(21)	1.744	320.278	9.228
	26	-	54
FACTOR(22)	7.874	1108.931	4.411
	14	10	18
FACTOR(23)	2.105	2.272	3.290
	-	16	-
FACTOR(24)	376.504	72.559	793.673
	-	49	-
FACTOR(25)	7.187	3.777	98.351
	29	-	61
FACTOR(26)	6.676	1247.184	0.743
	-	49	-
FACTOR(27)	180.161	4.691	350.244
	18	-	37
FACTOR(28)	9.587	622.211	6.693
	-	66	-
FACTOR(29)	132.213	8.456	290.064
	27	22	0.
FACTOR(30)	.545	4.265	968
	-	40	-
FACTOR(31)	42.314	2.739	126.892
	27	-	63

FIG. 118C

	569.927	89.968	1341.629	161.012	986.491
FACTOR(33)	15 1.128	325.268	0.719 42	.473 24	5.808 3
FACTOR(34)	39 1.097	532.880	3.931 43	.130 65	2.562 2
FACTOR(35)	21 .879	479.666	2.451	.599	2.397 -
FACTOR(36)	63 357.451	1.311	521.910 25	54.706	382.198 2
FACTOR(37)	56 9.876	338.182	6.025	38.478	1.471 -
FACTOR(38)	59 297.185	6.832	503.345	45.380	367.606 -
FACTOR(39)	98 243.396	9.287	850.458	117.629 12	604.867 -
FACTOR(40)	38 465.488	1.992	275.887	.571	246.707 -
FACTOR(41)	15 14.506	9.792	128.126 47	24.143 17	112.574 3
FACTOR(42)	44 1.848	579.365	0.909	.485	0.317 -
FACTOR(43)	28 83.053	5.618	253.243	30.550	184.865 -
FACTOR(44)	12 2.862	5.119	367.181	84.781 0.	244.696 0
FACTOR(45)	0. 000	0.	000	000	000 0
FACTOR(46)	0. 000	0.	000	000	000 0
FACTOR(47)	0. 000	0.	000	000	000 -
FACTOR(48)	52 306.610	1.311	437.054	34.115 0.	299.483 0
FACTOR(49)	0. 000	0.	000	000	000 0
FACTOR(50)	0. 000	0.	000	000	000 0
FACTOR(51)	0. 000	0.	000	000	000 0
FACTOR(52)	0. 000	0.	000	000	000 0

FIG. 118D

	7.822	1405.922	1.130
FACTOR(33)	-	30	-
	61.258	7.829	134.079
FACTOR(34)	-	48	-
	128.043	2.732	255.530
FACTOR(35)	-	44	-
	61.517	5.127	155.045
FACTOR(36)	14	-	28
	1.801	553.931	3.078
FACTOR(37)	-	32	-
	149.909	6.269	254.505
FACTOR(38)	12	-	26
	4.734	541.574	2.776
FACTOR(39)	15	-	36
	6.442	883.045	5.823
FACTOR(40)	11	-	23
	6.478	333.909	2.723
FACTOR(41)	15	-	48
	.342	123.246	.324
FACTOR(42)	-	53	-
	146.187	6.520	292.306
FACTOR(43)	52	-	11
	.637	255.160	5.244
FACTOR(44)	25	-	89
	.751	335.940	.762
FACTOR(45)	0.	0.	0.
	000	000	000
FACTOR(46)	0.	0.	0.
	000	000	0.
FACTOR(47)	0.	000	000
	000	-	23
FACTOR(48)	11	481.245	6.830
	6.883	0.	0.
FACTOR(49)	0.	000	000
	000	0.	0.
FACTOR(50)	0.	000	000
	000	0.	0.
FACTOR(51)	0.	000	000
	000	0.	0.
FACTOR(52)	0.	000	000

Variable	F-to-remove	Tolerance	Variable	F-to-enter	Tolerance
3 FACTOR(1)	165.86	0.001301	47 FACTOR(45)	0.00	0.000000
4 FACTOR(2)	20.89	0.010747	48 FACTOR(46)	0.00	0.000000
5 FACTOR(3)	155.48	0.002697	49 FACTOR(47)	0.00	0.000000
6 FACTOR(4)	30.37	0.005689	51 FACTOR(49)	0.00	0.000000
7 FACTOR(5)	37.26	0.004393	52 FACTOR(50)	0.00	0.000000
8 FACTOR(6)	3.26	0.045888	53 FACTOR(51)	0.00	0.000000
9 FACTOR(7)	62.50	0.003602	54 FACTOR(52)	0.00	0.000000
10 FACTOR(8)	22.54	0.006860			
11 FACTOR(9)	10.46	0.014231			
12 FACTOR(10)	8.04	0.018656			
13 FACTOR(11)	27.69	0.005697			
14 FACTOR(12)	44.93	0.003898			
15 FACTOR(13)	10.57	0.015446			
16 FACTOR(14)	8.78	0.018728			
17 FACTOR(15)	3.21	0.045731			
18 FACTOR(16)	0.48	0.232616			
19 FACTOR(17)	68.14	0.002608			
20 FACTOR(18)	24.62	0.006671			
21 FACTOR(19)	3.57	0.039938			
22 FACTOR(20)	43.13	0.004298			

FIG. 119A

23 FACTOR (21)	18.37	0.010330
24 FACTOR (22)	24.41	0.006799
25 FACTOR (23)	9.65	0.015550
26 FACTOR (24)	54.39	0.003457
27 FACTOR (25)	6.53	0.023139
28 FACTOR (26)	31.22	0.005147
29 FACTOR (27)	9.95	0.017948
30 FACTOR (28)	10.02	0.014805
31 FACTOR (29)	8.36	0.017939
32 FACTOR (30)	3.06	0.048530
33 FACTOR (31)	3.36	0.043854
34 FACTOR (32)	39.28	0.005440
35 FACTOR (33)	2.08	0.077397
36 FACTOR (34)	5.09	0.028857
37 FACTOR (35)	3.83	0.037992
38 FACTOR (36)	6.56	0.022503
39 FACTOR (37)	4.86	0.032875
40 FACTOR (38)	5.88	0.026270
41 FACTOR (39)	15.03	0.011187
42 FACTOR (40)	3.95	0.038036
43 FACTOR (41)	0.65	0.194654
44 FACTOR (42)	6.37	0.024341
45 FACTOR (43)	1.50	0.093363
46 FACTOR (44)	3.21	0.048085
50 FACTOR (48)	4.69	0.031305

Classification matrix (cases in row categories classified into columns)

	F3*	F3*:	FS	FT	R3*	R3*:
F3*	5	0	0	0	0	0
F3*:	0	10	0	0	0	0
FS	0	0	5	0	0	0
FT	0	0	0	9	0	0
R3*	0	0	0	0	5	0
R3*:	0	0	0	0	0	5
RS	0	0	0	0	0	0
RT	0	0	0	0	0	0
Total	5	10	5	9	5	5

FIG. 119B

	RS	RT	%correct
F3*	0	0	100
F3*!	0	0	100
FS	0	0	100
FT	0	0	100
R3*	0	0	100
R3*!	0	0	100
RS	5	0	100
RT	0	9	100
Total	5	9	100

Jackknifed classification matrix

	F3*	F3*!	FS	FT	R3*	R3*!
F3*	4	0	0	1	0	0
F3*!	2	3	3	0	1	0
FS	1	1	0	0	0	0
FT	3	0	4	1	0	0
R3*	2	0	0	1	0	1
R3*!	3	1	1	0	0	0
RS	0	3	1	0	0	0
RT	2	1	2	0	0	1
Total	17	9	11	3	1	2

	RS	RT	%correct
F3*	0	0	80
F3*!	1	0	30
FS	1	2	0
FT	0	1	11
R3*	1	0	0
R3*!	0	0	0
RS	1	0	20
RT	1	2	22
Total	5	5	21

FIG. 119C

Eigenvalues

5277.370	1800.188	87.172	38.636	26.920	5.759
2.					
<u>402</u>					

Canonical correlations

1.	1.	0.	0.	0.	0.	0.
000	000	994	987	982	923	
0.						
<u>840</u>						

Cumulative proportion of total dispersion

0.	0.	0.	0.	0.	0.	1.
729	978	990	995	999	000	
1.						
<u>000</u>						

Wilks' lambda= 0.000
 Approx.F= 5.299 df= 315, 20 p-tail= 0.0000

Pillai's trace= 6.485
 Approx.F= 1.959 df= 315, 49 p-tail= 0.0026

Lawley-Hotelling trace= 7238.447
 Approx.F= -16.414 df= 315, -5 p-tail=

Canonical discriminant functions

	1	2	3	4	5	
Constant	0.	0.	0.	0.	0.	0.
000	000	000	000	000	000	
6	7					
Constant	0.	0.				
000	000					

FIG. 119D

FACTOR(1)	31.378	4.071	0.964	1.632	0.309
FACTOR(2)	-7.334	7.746	-1.991	2.984	-0.441
FACTOR(3)	-25.539	-16.382	4.358	1.598	-0.365
FACTOR(4)	12.422	-5.058	1.504	-1.287	0.059
FACTOR(5)	14.807	-2.371	-0.543	-0.511	0.154
FACTOR(6)	-2.286	-3.427	0.861	-1.432	0.042
FACTOR(7)	-8.310	-17.352	-2.845	-0.636	-0.059
FACTOR(8)	-9.658	6.439	-1.233	-0.388	-0.451
FACTOR(9)	6.376	4.672	-0.584	-0.123	0.724
FACTOR(10)	1.220	6.832	0.108	-0.530	0.487
FACTOR(11)	12.693	-2.092	-1.113	0.482	0.919
FACTOR(12)	14.435	-7.638	-2.155	-0.913	-0.241
FACTOR(13)	-0.462	7.678	1.776	-1.334	0.010
FACTOR(14)	4.535	-5.414	-1.623	0.360	0.522
FACTOR(15)	0.244	-4.213	1.198	0.286	-0.087
FACTOR(16)	1.031	1.143	-0.552	-0.376	0.310
FACTOR(17)	-20.055	2.888	-0.016	1.330	0.685
FACTOR(18)	-7.071	9.757	1.984	0.048	0.240
FACTOR(19)	2.921	-3.531	-0.248	-0.048	-0.755
FACTOR(20)	5.545	-15.158	0.467	-0.403	-0.437
FACTOR(21)	-4.720	9.052	1.757	-1.940	-0.405
FACTOR(22)	-11.909	1.432	-1.953	-0.315	0.021
FACTOR(23)	0.313	7.533	-1.230	-0.361	-0.032
FACTOR(24)	17.959	-1.525	1.660	0.241	1.311
FACTOR(25)	4.791	3.968	-0.176	0.842	0.160
FACTOR(26)	-13.635	1.429	-0.821	0.216	0.429
FACTOR(27)	5.934	-4.565	-1.317	0.909	1.138
FACTOR(28)	-7.117	3.111	0.071	-0.492	0.192
FACTOR(29)	7.008	0.390	1.073	0.199	0.103
FACTOR(30)	1.986	3.631	0.223	0.204	-1.108
FACTOR(31)	3.927	1.592	1.020	1.068	0.483
FACTOR(32)					

FIG. 120A

	-15.192	-0.671	-0.273	-0.961	2.409
FACTOR(33)	3.145	-0.139	0.605	0.076	1.399
FACTOR(34)	5.297	-1.439	0.298	0.187	0.718
FACTOR(35)	4.460	1.463	0.925	0.326	0.175
FACTOR(36)	-6.171	0.821	-0.119	0.662	0.723
FACTOR(37)	3.825	-3.616	1.157	0.154	0.269
FACTOR(38)	-5.844	0.449	-0.643	-0.382	0.689
FACTOR(39)	-9.343	-1.352	-0.496	-0.381	1.064
FACTOR(40)	-3.996	2.597	0.373	-0.798	0.618
FACTOR(41)	-1.432	-0.422	0.716	-0.307	1.015
FACTOR(42)	5.851	-1.719	0.850	0.639	0.111
FACTOR(43)	-2.754	-0.275	-0.342	-0.141	1.145
FACTOR(44)	-3.465	-2.389	0.077	0.375	1.222
FACTOR(45)	.	.	.	.	.
FACTOR(46)	.	.	.	.	.
FACTOR(47)	.	.	.	.	.
FACTOR(48)	-5.143	0.770	-0.884	0.091	-0.735
FACTOR(49)	.	.	.	.	.
FACTOR(50)	.	.	.	.	.
FACTOR(51)	.	.	.	.	.
FACTOR(52)	.	.	.	.	.

FIG. 120B

FACTOR(1)	0.37	0.03
	4	0
FACTOR(2)	0.14	-
	8	0.102
FACTOR(3)	0.37	-
	3	0.046
FACTOR(4)	0.58	0.00
	9	7
FACTOR(5)	0.52	0.33
	3	5
FACTOR(6)	0.17	-
	9	0.117
FACTOR(7)	-	0.13
	0.509	7
FACTOR(8)	0.042	0.10
	-	5
FACTOR(9)	0.09	-
	1	0.114
FACTOR(10)	-	0.26
	0.030	1
FACTOR(11)	0.17	0.02
	9	2
FACTOR(12)	0.054	0.268
	-	0.10
FACTOR(13)	0.182	1
	-	0.34
FACTOR(14)	0.55	5
	5	-
FACTOR(15)	0.23	-
	7	0.334
FACTOR(16)	-	0.03
	0.119	9
FACTOR(17)	-	0.31
	0.276	7
FACTOR(18)	0.01	-
	2	0.202
FACTOR(19)	-	-
	0.076	0.087
FACTOR(20)	-	-
	0.539	0.292
FACTOR(21)	-	0.06
	0.531	4
FACTOR(22)	0.04	-
	3	0.498
FACTOR(23)	0.04	-
	3	0.085
FACTOR(24)	0.370	0.429
	-	-
FACTOR(25)	0.00	-
	4	0.397
FACTOR(26)	0.610	0.078
	-	0.28
FACTOR(27)	0.710	4
	-	0.22
FACTOR(28)	0.29	6
	3	0.03
FACTOR(29)	0.498	1
	-	0.03
FACTOR(30)	0.362	8
	-	-
FACTOR(31)	0.10	-
	5	0.183
FACTOR(32)	0.39	0.07

FIG. 120C

	7	1
FACTOR(33)	0.655	0.297
FACTOR(34)	0.101	0
FACTOR(35)	0.440	4
FACTOR(36)	0.09	-
FACTOR(37)	1	0.195
FACTOR(38)	0.31	0.59
FACTOR(39)	4	4
FACTOR(40)	0.74	-
FACTOR(41)	0.39	-
FACTOR(42)	0.317	0.169
FACTOR(43)	0.430	0.41
FACTOR(44)	0.04	-
FACTOR(45)	0	0.235
FACTOR(46)	-	0.34
FACTOR(47)	-	-
FACTOR(48)	0.15	0.24
FACTOR(49)	2	1
FACTOR(50)	.	.
FACTOR(51)	.	.
FACTOR(52)	.	.

Canonical discriminant functions -- standardized by within variances

FIG. 120D

	1	2	3	4	5
FACTOR(1)	27.438	3.560	0.843	1.427	0.270
FACTOR(2)	-6.267	6.619	-1.701	2.550	-0.376
FACTOR(3)	-16.017	-10.274	2.733	1.002	-0.229
FACTOR(4)	12.113	-4.932	1.466	-1.255	0.058
FACTOR(5)	14.841	-2.377	-0.544	-0.513	0.154
FACTOR(6)	-2.351	-3.525	0.885	-1.473	0.044
FACTOR(7)	-7.108	-14.842	-2.433	-0.544	-0.051
FACTOR(8)	-9.948	6.632	-1.270	-0.400	-0.465
FACTOR(9)	6.671	4.888	-0.611	-0.128	0.757
FACTOR(10)	1.268	7.105	0.112	-0.551	0.506
FACTOR(11)	12.950	-2.135	-1.135	0.492	0.937
FACTOR(12)	13.992	-7.404	-2.089	-0.885	-0.234
FACTOR(13)	-0.462	7.670	1.774	-1.332	0.010
FACTOR(14)	4.507	-5.381	-1.613	0.358	0.519
FACTOR(15)	0.253	-4.373	1.244	0.297	-0.090
FACTOR(16)	1.100	1.219	-0.588	-0.401	0.330
FACTOR(17)	-19.311	2.780	-0.015	1.281	0.659
FACTOR(18)	-7.069	9.754	1.983	0.048	0.240
FACTOR(19)	3.083	-3.727	-0.262	-0.050	-0.797
FACTOR(20)	5.224	-14.281	0.440	-0.380	-0.412
FACTOR(21)	-4.385	8.410	1.632	-1.803	-0.376
FACTOR(22)	-11.841	1.424	-1.942	-0.313	0.021
FACTOR(23)	0.326	7.844	-1.281	-0.375	-0.033
FACTOR(24)	16.806	-1.427	1.553	0.226	1.227
FACTOR(25)	4.955	4.104	-0.182	0.870	0.165
FACTOR(26)	-13.789	1.446	-0.830	0.218	0.434
FACTOR(27)	5.664	-4.357	-1.257	0.867	1.086
FACTOR(28)	-7.455	3.259	0.074	-0.516	0.201
FACTOR(29)	7.290	0.406	1.117	0.207	0.107
FACTOR(30)	2.048	3.745	0.230	0.211	-1.142
FACTOR(31)	4.071	1.650	1.058	1.107	0.501

FIG. 121A

FACTOR(32)	-13.329	-0.589	-0.239	-0.843	2.114
FACTOR(33)	3.082	-0.136	0.593	0.075	1.371
FACTOR(34)	5.540	-1.505	0.312	0.195	0.751
FACTOR(35)	4.666	1.531	0.968	0.341	0.183
FACTOR(36)	-6.457	0.859	-0.125	0.693	0.757
FACTOR(37)	3.832	-3.623	1.159	0.154	0.270
FACTOR(38)	-5.971	0.459	-0.657	-0.390	0.704
FACTOR(39)	-9.213	-1.333	-0.489	-0.376	1.049
FACTOR(40)	-4.113	2.673	0.384	-0.821	0.636
FACTOR(41)	-1.483	-0.437	0.741	-0.318	1.051
FACTOR(42)	5.971	-1.754	0.867	0.652	0.113
FACTOR(43)	-2.855	-0.285	-0.355	-0.146	1.187
FACTOR(44)	-3.504	-2.416	0.078	0.379	1.236
FACTOR(45)	.	.	.	.	.
FACTOR(46)	.	.	.	.	.
FACTOR(47)	.	.	.	.	.
FACTOR(48)	-5.373	0.804	-0.924	0.095	-0.768
FACTOR(49)	.	.	.	.	.
FACTOR(50)	.	.	.	.	.
FACTOR(51)	.	.	.	.	.
FACTOR(52)	.	.	.	.	.

FIG. 121B

	6	7
FACTOR(1)	0.32	0.02
	7	7
	0.12	-
FACTOR(2)	6	0.087
	0.23	-
FACTOR(3)	4	0.029
	0.57	0.00
FACTOR(4)	4	7
	0.52	0.33
FACTOR(5)	5	6
	0.18	-
FACTOR(6)	5	0.120
	-	0.11
FACTOR(7)	0.435	7
	-	0.10
FACTOR(8)	0.043	8
	0.09	-
FACTOR(9)	5	0.119
	-	0.27
FACTOR(10)	0.031	1
	0.18	0.02
FACTOR(11)	3	3
	-	-
FACTOR(12)	0.053	0.260
	-	0.10
FACTOR(13)	0.182	1
	0.55	0.34
FACTOR(14)	2	2
	0.24	-
FACTOR(15)	7	0.346
	-	0.04
FACTOR(16)	0.127	2
	-	0.30
FACTOR(17)	0.266	6
	0.01	-
FACTOR(18)	2	0.202
	-	-
FACTOR(19)	0.081	0.092
	-	-
FACTOR(20)	0.508	0.275
	-	0.05
FACTOR(21)	0.494	9
	0.04	-
FACTOR(22)	2	0.496
	0.04	-
FACTOR(23)	5	0.089
	-	-
FACTOR(24)	0.346	0.402
	0.00	-
FACTOR(25)	4	0.410
	-	-
FACTOR(26)	0.616	0.079
	-	0.27
FACTOR(27)	0.678	1
	0.30	0.23
FACTOR(28)	7	7
	-	0.03
FACTOR(29)	0.518	2
	-	0.04
FACTOR(30)	0.373	0
	0.10	-
FACTOR(31)	9	0.190

FIG. 121C

FACTOR(32)	0.34	0.06
	8	2
FACTOR(33)	0.642	0.291
		0.31
FACTOR(34)	0.105	4
		0.13
FACTOR(35)	0.460	0
	0.09	-
FACTOR(36)	5	0.204
	0.31	0.59
FACTOR(37)	4	5
	0.40	-
FACTOR(38)	4	0.406
	0.73	-
FACTOR(39)	2	0.149
		0.42
FACTOR(40)	0.033	2
	-	-
FACTOR(41)	0.329	0.175
		0.42
FACTOR(42)	0.439	2
	0.04	-
FACTOR(43)	1	0.244
		0.34
FACTOR(44)	0.344	6
FACTOR(45)	.	.
FACTOR(46)	.	.
FACTOR(47)	.	.
FACTOR(48)	0.15	0.25
	9	1
FACTOR(49)	.	.
FACTOR(50)	.	.
FACTOR(51)	.	.
FACTOR(52)	.	.

FIG. 121D

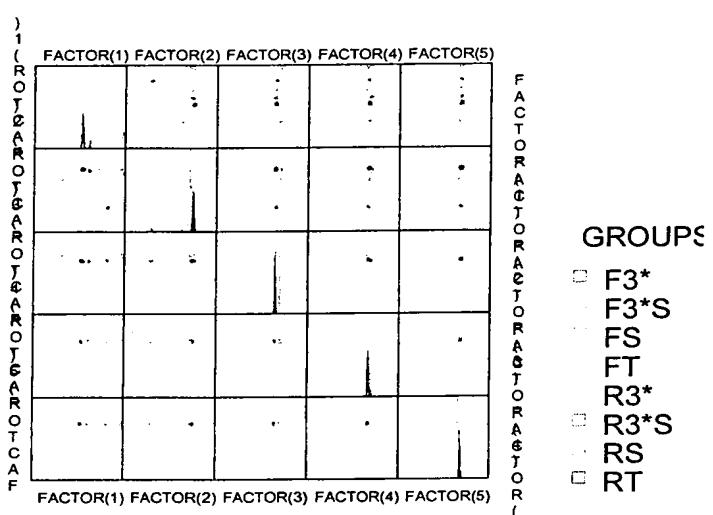
Canonical scores of group means

	1	2	3	4	5
F3*	43.081	113.251	4.364	1.429	2.323
F3*:	104.714	14.520	9.260	0.616	2.977
FS	86.840	25.022	13.495	4.830	3.285
FT	10.393	18.853	6.650	9.729	0.283
R3*	62.606	7.312	9.120	7.595	10.641
R3*:	19.093	18.816	7.253	7.728	2.641
RS	92.468	11.944	11.481	5.703	6.912
RT	41.768	25.145	5.995	0.841	4.729

	6	7
F3*	1.03	-
	3	0.204
F3*†	-	0.15
	0.842	7
FS	3.79	-
	2	1.371
FT	-	-
	2.362	0.091
R3*	-	1.30
	0.258	9
R3*†	-	-
	0.670	3.601
RS	-	1.24
	3.109	4
RT	2.86	1.37
	1	5

Canonical Scores Plot

FIG. 122A



*****WARNING*****

The file

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was read for processing, and its contents have been replaced by saving the processed data into it.

53 cases and 56 variables processed and saved.

Distance metric is Euclidean distance

k-means splitting cases into 3 groups

Summary statistics for all cases

Variable	Between SS	df	-	Within SS	df	F-ratio
FACTOR(1)	4.310	2		47.690	50	2.259
FACTOR(2)	2.931	2		49.069	50	1.493
FACTOR(3)	1.260	2		50.740	50	0.621
FACTOR(4)	0.450	2		51.550	50	0.218
FACTOR(5)	0.433	2		51.567	50	0.210

FACTOR(6)	0.993	2	51.007	50	0.487
FACTOR(7)	1.371	2	50.629	50	0.677
FACTOR(8)	0.373	2	51.627	50	0.181
FACTOR(9)	1.368	2	50.632	50	0.675
FACTOR(10)	1.309	2	50.691	50	0.646
FACTOR(11)	5.184	2	46.816	50	2.768
FACTOR(12)	4.242	2	47.758	50	2.221
FACTOR(13)	3.361	2	48.639	50	1.727
FACTOR(14)	0.109	2	51.891	50	0.052
FACTOR(15)	0.219	2	51.781	50	0.106
FACTOR(16)	2.089	2	49.911	50	1.046
FACTOR(17)	4.144	2	47.856	50	2.165
FACTOR(18)	3.101	2	48.899	50	1.586
FACTOR(19)	1.107	2	50.893	50	0.544
FACTOR(20)	3.794	2	48.206	50	1.968
FACTOR(21)	2.569	2	49.431	50	1.299
FACTOR(22)	0.117	2	51.883	50	0.057
FACTOR(23)	2.352	2	49.648	50	1.184
FACTOR(24)	4.014	2	47.986	50	2.091
FACTOR(25)	0.662	2	51.338	50	0.322
FACTOR(26)	1.397	2	50.603	50	0.690
FACTOR(27)	0.297	2	51.703	50	0.144
FACTOR(28)	1.058	2	50.942	50	0.519
FACTOR(29)	1.008	2	50.992	50	0.494
FACTOR(30)	0.535	2	51.465	50	0.260
FACTOR(31)	1.603	2	50.397	50	0.795
FACTOR(32)	2.181	2	49.819	50	1.095
FACTOR(33)	0.690	2	51.310	50	0.336
FACTOR(34)	0.029	2	51.971	50	0.014
FACTOR(35)	4.310	2	47.690	50	2.260
FACTOR(36)	2.031	2	49.969	50	1.016
FACTOR(37)	0.522	2	51.478	50	0.253
FACTOR(38)	10.691	2	41.309	50	6.470
FACTOR(39)	1.890	2	50.110	50	0.943
FACTOR(40)	0.161	2	51.839	50	0.077
FACTOR(41)	1.642	2	50.358	50	0.815
FACTOR(42)	1.395	2	50.605	50	0.689
FACTOR(43)	4.625	2	47.375	50	2.441
FACTOR(44)	2.887	2	49.113	50	1.469
FACTOR(45)	0.385	2	51.615	50	0.187
FACTOR(46)	2.941	2	49.059	50	1.499
FACTOR(47)	1.830	2	50.170	50	0.912
FACTOR(48)	0.753	2	51.247	50	0.368
FACTOR(49)	0.026	2	51.974	50	0.012
FACTOR(50)	1.858	2	50.142	50	0.927
FACTOR(51)	1.300	2	50.700	50	0.641
FACTOR(52)	4.092	2	47.908	50	2.135
** TOTAL **	104.000	104	2600.000	2600	

Cluster 1 of 3 contains 18 cases

Members			Statistics			
Case	Distance	Variable	Minimum	Mean	Maximum	St. Dev.
Case 1	0.97	FACTOR(1)	-0.87	0.36	1.38	0.58
Case 5	0.97	FACTOR(2)	-0.59	0.29	1.34	0.60
Case 6	0.97	FACTOR(3)	-1.65	-0.19	0.69	0.50
Case 8	0.97	FACTOR(4)	-1.08	-0.05	1.66	0.74
Case 10	0.97	FACTOR(5)	-0.60	0.08	0.88	0.45
Case 11	0.97	FACTOR(6)	-1.30	-0.09	1.61	0.74
Case 13	0.97	FACTOR(7)	-1.71	-0.21	1.07	0.70
Case 14	0.97	FACTOR(8)	-1.03	0.07	1.06	0.62
Case 16	0.97	FACTOR(9)	-0.52	0.11	0.58	0.34
Case 17	0.97	FACTOR(10)	-2.74	-0.17	1.61	0.94
Case 18	0.97	FACTOR(11)	-0.68	0.24	1.02	0.46
Case 19	0.97	FACTOR(12)	-1.61	-0.01	1.21	0.68

FIG. 122B

Case 20	0.97	FACTOR (13)	-1.30	0.01	0.88	0.55
Case 21	0.97	FACTOR (14)	-1.38	0.06	0.94	0.51
Case 28	0.97	FACTOR (15)	-0.82	0.06	1.20	0.57
Case 36	0.97	FACTOR (16)	-1.60	-0.12	0.65	0.62
Case 38	0.97	FACTOR (17)	-1.62	0.07	1.57	0.81
Case 53	0.97	FACTOR (18)	-1.10	0.22	2.55	0.94
		FACTOR (19)	-1.25	0.15	3.67	1.00
		FACTOR (20)	-1.48	-0.30	1.47	0.87
		FACTOR (21)	-1.51	-0.15	1.68	0.83
		FACTOR (22)	-2.73	-0.06	2.08	1.12
		FACTOR (23)	-1.86	-0.06	1.44	0.90
		FACTOR (24)	-1.48	0.20	2.00	1.09
		FACTOR (25)	-1.53	0.11	2.06	0.94
		FACTOR (26)	-1.20	0.18	2.67	0.98
		FACTOR (27)	-1.91	-0.08	1.35	1.02
		FACTOR (28)	-2.43	0.09	1.61	0.99
		FACTOR (29)	-1.28	0.04	1.79	0.87
		FACTOR (30)	-2.91	0.05	1.90	1.17
		FACTOR (31)	-1.86	0.20	2.39	1.15
		FACTOR (32)	-2.49	-0.24	1.56	1.25
		FACTOR (33)	-1.58	0.03	1.91	0.99
		FACTOR (34)	-1.55	-0.00	2.96	1.01
		FACTOR (35)	-2.25	-0.31	1.85	1.17
		FACTOR (36)	-2.91	0.07	1.90	1.14
		FACTOR (37)	-2.83	0.13	2.35	1.43
		FACTOR (38)	-2.61	-0.62	2.33	1.15
		FACTOR (39)	-2.80	-0.26	2.23	1.14
		FACTOR (40)	-2.61	0.01	2.51	1.25
		FACTOR (41)	-3.28	-0.24	2.90	1.44
		FACTOR (42)	-2.52	0.05	2.78	1.41
		FACTOR (43)	-2.88	0.31	2.13	1.14
		FACTOR (44)	-1.49	-0.04	1.99	0.96
		FACTOR (45)	-1.42	0.11	1.83	0.91
		FACTOR (46)	-1.62	-0.11	2.10	0.97
		FACTOR (47)	-2.13	0.26	2.79	1.24
		FACTOR (48)	-3.21	-0.15	1.91	1.42
		FACTOR (49)	-1.52	-0.02	2.29	1.03
		FACTOR (50)	-3.70	-0.23	1.37	1.41
		FACTOR (51)	-2.42	0.21	3.70	1.43
		FACTOR (52)	-1.87	0.35	5.52	1.49

Cluster 2 of 3 contains 18 cases

Members		Variable	Statistics			
Case	Distance		Minimum	Mean	Maximum	St.Dev.
Case 22	0.97	FACTOR(1)	-1.96	-0.04	1.50	0.99
Case 23	0.97	FACTOR(2)	-1.65	-0.28	1.84	0.91
Case 25	0.97	FACTOR(3)	-2.16	0.18	2.85	1.30
Case 26	0.97	FACTOR(4)	-3.55	0.13	2.26	1.31
Case 29	0.97	FACTOR(5)	-2.04	0.04	2.02	1.17
Case 30	0.97	FACTOR(6)	-1.84	0.19	3.40	1.41
Case 31	0.97	FACTOR(7)	-2.58	0.18	2.90	1.43
Case 33	0.97	FACTOR(8)	-1.79	0.05	3.56	1.31
Case 34	0.97	FACTOR(9)	-2.10	0.11	1.92	1.30
Case 35	0.97	FACTOR(10)	-2.21	0.20	1.62	1.01
Case 37	0.97	FACTOR(11)	-2.89	-0.44	2.63	1.28
Case 39	0.97	FACTOR(12)	-0.86	0.34	2.99	0.96
Case 41	0.97	FACTOR(13)	-1.25	0.30	1.52	0.81
Case 42	0.97	FACTOR(14)	-2.72	-0.05	3.12	1.29
Case 43	0.97	FACTOR(15)	-1.89	-0.09	2.38	1.28
Case 45	0.97	FACTOR(16)	-1.83	-0.15	1.79	1.02
Case 49	0.97	FACTOR(17)	-3.46	-0.36	1.37	1.26
Case 51	0.97	FACTOR(18)	-1.87	-0.33	2.39	1.19
		FACTOR(19)	-1.52	-0.19	1.56	0.83
		FACTOR(20)	-1.04	0.34	2.34	0.91

FIG. 122C

FACTOR (21)	-1.76	-0.15	1.64	0.88
FACTOR (22)	-2.88	0.05	1.52	1.06
FACTOR (23)	-1.30	0.28	1.77	0.87
FACTOR (24)	-1.56	0.18	1.13	0.74
FACTOR (25)	-2.32	-0.15	1.30	1.13
FACTOR (26)	-2.06	0.02	2.86	1.08
FACTOR (27)	-1.84	0.10	1.31	0.96
FACTOR (28)	-3.30	-0.20	2.60	1.25
FACTOR (29)	-2.04	0.14	1.94	1.03
FACTOR (30)	-3.05	0.09	1.97	1.13
FACTOR (31)	-2.39	-0.22	1.77	1.10
FACTOR (32)	-1.41	0.00	1.38	0.87
FACTOR (33)	-1.87	0.12	3.89	1.17
FACTOR (34)	-1.66	-0.03	2.05	0.98
FACTOR (35)	-1.30	-0.05	1.39	0.79
FACTOR (36)	-2.33	-0.26	0.85	0.85
FACTOR (37)	-1.47	-0.11	0.94	0.67
FACTOR (38)	-0.69	0.39	2.27	0.72
FACTOR (39)	-1.65	0.15	2.24	0.95
FACTOR (40)	-1.99	0.06	2.46	0.98
FACTOR (41)	-1.96	0.06	1.12	0.73
FACTOR (42)	-1.48	-0.22	1.04	0.71
FACTOR (43)	-2.27	0.07	1.99	0.86
FACTOR (44)	-1.75	-0.26	0.43	0.60
FACTOR (45)	-2.00	-0.02	1.13	0.75
FACTOR (46)	-0.59	0.32	2.18	0.77
FACTOR (47)	-2.07	-0.14	1.24	0.91
FACTOR (48)	-0.86	0.01	1.02	0.46
FACTOR (49)	-1.65	-0.01	1.88	0.74
FACTOR (50)	-1.15	0.01	2.45	0.76
FACTOR (51)	-1.95	-0.15	0.52	0.59
FACTOR (52)	-0.85	-0.04	1.08	0.39

Cluster 3 of 3 contains 17 cases

Members		Variable	Statistics			
Case	Distance		Minimum	Mean	Maximum	St.Dev.
Case 2	0.97	FACTOR (1)	-2.67	-0.34	1.58	1.26
Case 3	0.97	FACTOR (2)	-4.29	-0.01	1.70	1.34
Case 4	0.97	FACTOR (3)	-3.06	0.01	1.49	1.05
Case 7	0.97	FACTOR (4)	-1.44	-0.08	2.65	0.90
Case 9	0.97	FACTOR (5)	-3.05	-0.13	2.34	1.25
Case 12	0.97	FACTOR (6)	-1.95	-0.10	1.24	0.71
Case 15	0.97	FACTOR (7)	-1.12	0.03	1.24	0.69
Case 24	0.97	FACTOR (8)	-2.94	-0.12	1.55	1.00
Case 27	0.97	FACTOR (9)	-2.80	-0.23	1.73	1.12
Case 32	0.97	FACTOR (10)	-1.57	-0.03	1.85	1.07
Case 40	0.97	FACTOR (11)	-1.92	0.20	2.23	0.98
Case 44	0.97	FACTOR (12)	-3.64	-0.35	1.09	1.23
Case 46	0.97	FACTOR (13)	-3.30	-0.32	2.52	1.42
Case 47	0.97	FACTOR (14)	-2.33	-0.00	2.00	1.10
Case 48	0.97	FACTOR (15)	-2.66	0.02	1.87	1.07
Case 50	0.97	FACTOR (16)	-2.14	0.29	2.82	1.27
Case 52	0.97	FACTOR (17)	-0.84	0.31	2.01	0.77
		FACTOR (18)	-1.47	0.12	1.58	0.79
		FACTOR (19)	-2.40	0.05	2.69	1.18
		FACTOR (20)	-1.58	-0.04	2.30	1.15
		FACTOR (21)	-1.10	0.32	3.10	1.24
		FACTOR (22)	-1.15	0.01	1.63	0.85
		FACTOR (23)	-3.20	-0.23	1.17	1.20
		FACTOR (24)	-3.25	-0.40	0.87	1.08
		FACTOR (25)	-1.25	0.04	2.36	0.95
		FACTOR (26)	-2.19	-0.22	0.98	0.94
		FACTOR (27)	-2.32	-0.02	1.60	1.08
		FACTOR (28)	-0.81	0.11	1.39	0.70

FIG. 122D

FACTOR (29)	-2.02	-0.19	1.91	1.12
FACTOR (30)	-1.45	-0.14	0.90	0.64
FACTOR (31)	-1.32	0.01	1.44	0.68
FACTOR (32)	-1.07	0.26	2.55	0.81
FACTOR (33)	-2.34	-0.16	1.04	0.84
FACTOR (34)	-1.63	0.03	2.15	1.07
FACTOR (35)	-0.87	0.39	3.01	0.93
FACTOR (36)	-0.85	0.21	2.47	0.99
FACTOR (37)	-1.42	-0.02	1.98	0.75
FACTOR (38)	-0.94	0.25	2.60	0.80
FACTOR (39)	-2.19	0.12	1.53	0.88
FACTOR (40)	-1.06	-0.07	1.56	0.74
FACTOR (41)	-0.49	0.18	1.55	0.62
FACTOR (42)	-1.77	0.17	1.31	0.73
FACTOR (43)	-2.28	-0.40	1.13	0.88
FACTOR (44)	-2.33	0.31	2.96	1.31
FACTOR (45)	-2.74	-0.10	3.27	1.33
FACTOR (46)	-3.40	-0.23	1.73	1.20
FACTOR (47)	-1.86	-0.12	1.55	0.78
FACTOR (48)	-2.16	0.15	1.63	0.91
FACTOR (49)	-2.51	0.03	3.14	1.24
FACTOR (50)	-1.00	0.23	1.43	0.64
FACTOR (51)	-2.57	-0.06	1.05	0.79
FACTOR (52)	-1.99	-0.33	0.44	0.68

Cluster Parallel Coordinate Plots

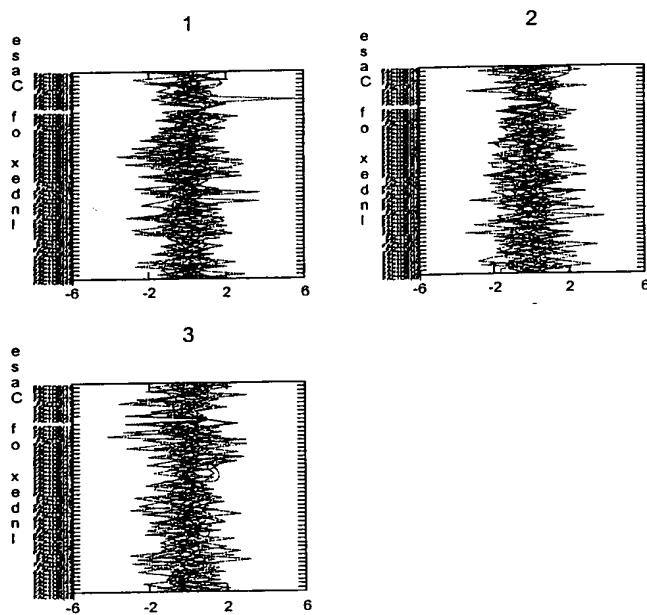
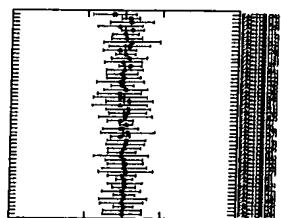


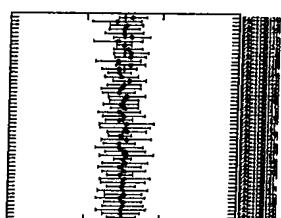
FIG. 123A

Cluster Profile Plots

1



2



3

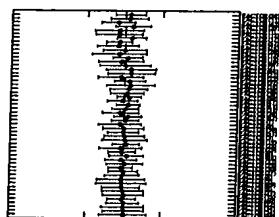


FIG. 123B